CFD-E100/E100L

SERVICE MANUAL

Ver. 1.1 2005.05

Photo : CFD-E100

US Model
Canadian Model
E Model
CFD-E100
AEP Model
UK Model
CFD-E100L

CD Section	Model Name Using Similar Mechanism	NEW
	Optical Pick-up Block Name	KSM-900AAA
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-E100

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven from 100 - 10,000 Hz; rated 1.5 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

CD player section

System
- Compact disc digital audio system

Laser diode properties
- Emission duration: Continuous
- Laser output: Less than 44.6 µW
- (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Spindle speed
- 200 r/min (rpm) to 500 r/min (rpm) (CLV)

Number of channels
- 2

Frequency response
- 20 - 20 000 Hz +1/–2 dB

Wow and flutter
- Below measurable limit

Radio section

Frequency range

CFD-E100L	
FM	87.5 - 108 MHz
MW	531 - 1 611 kHz (9 kHz step) 530 - 1 610 kHz (10 kHz step)
LW	153 - 279 kHz
CFD-E100	
FM	87.5 - 108 MHz
AM	531 - 1 611 kHz (9 kHz step) 530 - 1 610 kHz (10 kHz step)

IF
- FM: 10.7 MHz
- AM/MW/LW: 450 kHz

Aerials
- FM: Telescopic aerials
- AM/MW/LW: Built-in ferrite bar aerials

Cassette-corder section

Recording system
- 4-track 2 channel stereo

Fast winding time
- Approx. 120 s (sec.) with Sony cassette C-60

Frequency response
- TYPE I (normal): 80 - 13 000 Hz

General

Speaker
- Full range: 8 cm dia., 3.2 Ω, cone type (2)

Outputs
- Headphones jack (stereo minijack)
- For 16 - 68 Ω impedance headphones

Maximum Power output
- 3.6 W

Power requirements
- For CD radio cassette-corder:
- US, Canadian, Taiwan models:
- 120 V AC, 60Hz
- Korean model: 220 V AC, 60Hz
- Other models: 230 V AC, 50Hz
- 9 V DC, 6 R14 (size C) batteries
- For remote control:
- 3 V DC, 2 R03 (size AAA) batteries

Power consumption
- AC 14 W

Battery life
- For CD radio cassette-corder:

FM recording	
Sony R14P: approx. 13.5 h	
Sony alkaline LR14: approx. 20 h	
Tape playback	
Sony R14P: approx. 7.5 h	
Sony alkaline LR14: approx. 15 h	
CD playback	
Sony R14P: approx. 2.5 h	
Sony alkaline LR14: approx. 7 h	

Dimensions
- Approx. 385 × 190.5 × 170 mm (w/h/d) (incl. projecting parts)

Mass
- Approx. 3.1 kg (incl. batteries)

Supplied accessory
- Mains lead (1)
- Remote control (1)

Design and specifications are subject to change without notice.

CD RADIO CASSETTE-CORDER

9-879-702-02
2005E05-1
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Sony Corporation
Personal Audio Group
Published by Sony Engineering Corporation

SONY®

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

About CD-Rs/CD-RWs

This player can play CD-Rs/CD-RWs recorded in the CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

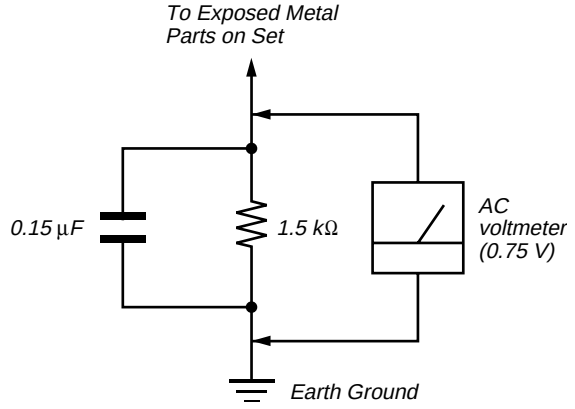


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

1. SERVICING NOTES 4

2. GENERAL 6

3. DISASSEMBLY

3-1. Disassembly Flow 7
3-2. Cover (Handle) 8
3-3. Handle Block 8
3-4. Cabinet (Rear) Block 9
3-5. CD Tray Block 10
3-6. Optical Pick-up Block 10
3-7. Optical Pick-up (KSM-900AAA) 11
3-8. Panel (Upper) Block 11
3-9. MD Block 12
3-10. MAIN Board 12
3-11. POWER Board 13
3-12. Tape Mechanism Deck (MF-E100) 13
3-13. RP Head (HRP301) 14
3-14. Motor Sub Assy (CAPSTAN/REEL) (M901) 14
3-15. TU Board 15

4. MECHANICAL ADJUSTMENTS 16

5. ELECTRICAL ADJUSTMENTS 16

6. DIAGRAMS

6-1. Block Diagram – SERVO Section – 21
6-2. Block Diagram – TUNER Section – 22
6-3. Block Diagram – AUDIO Section – 23
6-4. Block Diagram – PANEL, POWER SUPPLY Section – 24
6-5. Printed Wiring Boards – CD Section – 26
6-6. Schematic Diagram – CD Section – 27
6-7. Printed Wiring Board
– TUNER Section (CFD-E100 Only) – 28
6-8. Schematic Diagram
– TUNER Section (CFD-E100 Only) – 29
6-9. Printed Wiring Board
– TUNER Section (CFD-E100L Only) – 30
6-10. Schematic Diagram
– TUNER Section (CFD-E100L Only) – 31
6-11. Printed Wiring Board – TAPE Section – 32
6-12. Schematic Diagram – TAPE Section – 33
6-13. Printed Wiring Board – MAIN Section – 34
6-14. Schematic Diagram – MAIN Section – 35
6-15. Printed Wiring Boards – POWER Section – 36
6-16. Schematic Diagram – POWER Section – 37
6-17. Printed Wiring Boards – LCD Section – 38
6-18. Schematic Diagram – LCD Section – 39

7. EXPLODED VIEWS

7-1. Handle Section 45
7-2. Main Section 46
7-3. Cabinet (Front) Section 47
7-4. Panel (Upper) Section 48
7-5. Cabinet (Rear) Section 49
7-6. MAIN Board Section 50
7-7. CD Tray Section (KSM-900AAA) 51
7-8. MD Block Section-1 52
7-9. MD Block Section-2 53
7-10. Tape Mechanism Deck Section (MF-E100) 54

8. ELECTRICAL PARTS LIST 55

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

[MODEL IDENTIFICATION]

The CFD-E100/E100L are available with three types and four different color variations.
How to identify the destination, type, and color variation is shown below.

– CD LID Top View –

ORIGINAL TYPE (CFD-E100) | *ORIGINAL TYPE (CFD-E100L)* | *LIV TYPE (CFD-E100: US)*

• COLOR VARIATION

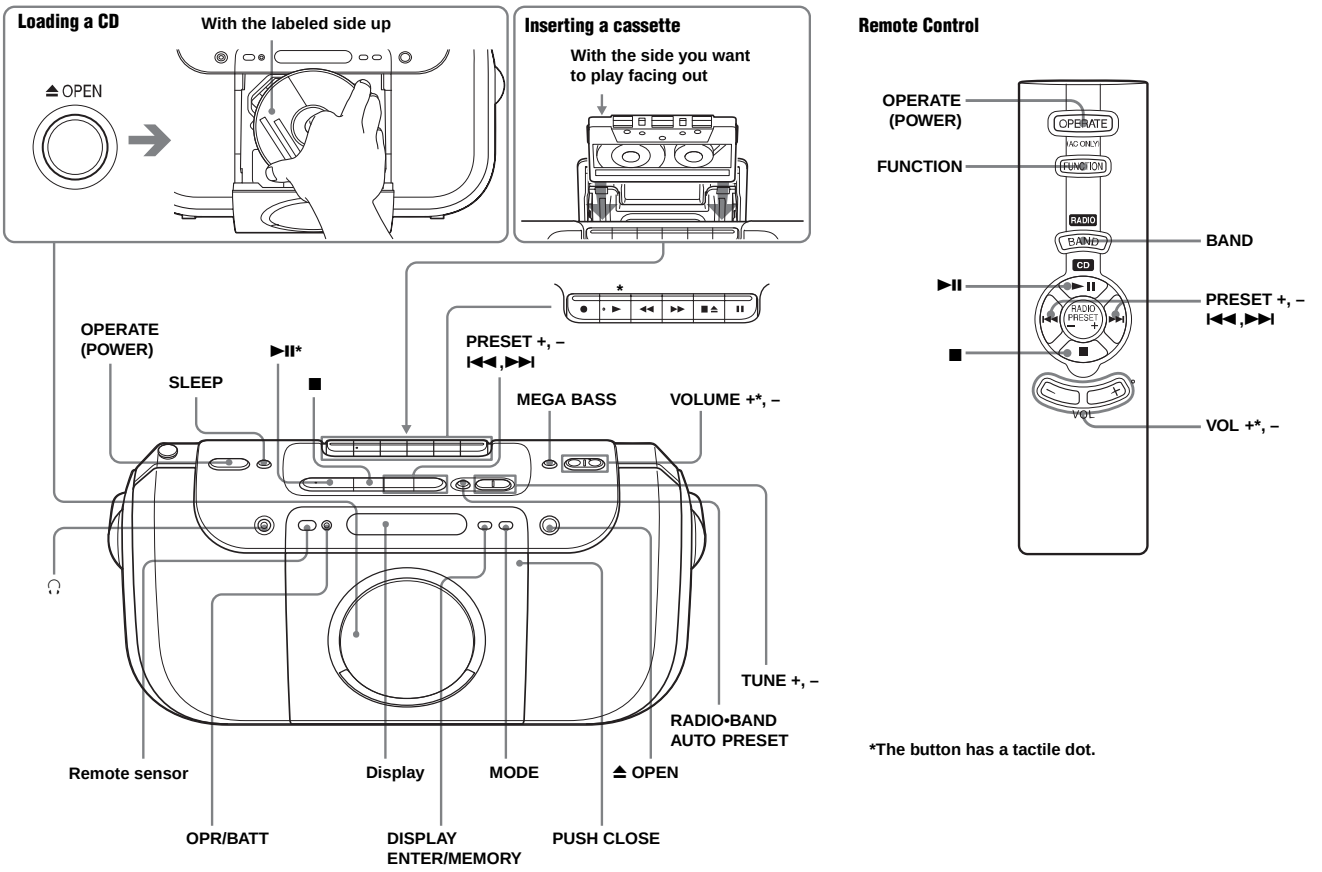
		ORIGINAL TYPE			LIV TYPE
		WHITE	SILVER	BLUE	WHITE
CFD-E100	US	○	—	—	○
	CND	○	—	—	—
	SP	—	○	○	—
	TW	—	○	○	—
	KR	—	○	○	—
CFD-E100L	AEP	—	○	○	—
	UK	—	○	—	—
	EE, RU	—	○	—	—
	IT	—	○	—	—

• Abbreviation
CND : Canadian model
EE : East European model
IT : Italian model
KR : Korean model
RU : Russian model
SP : Singapore model
TW : Taiwan model

SECTION 2
GENERAL

This section is extracted from instruction manual.

Location of controls



*The button has a tactile dot.

Display

D Total track number — 12 55:27 — Total playing time

E Programmed track — 03 01 PGM — Playing order

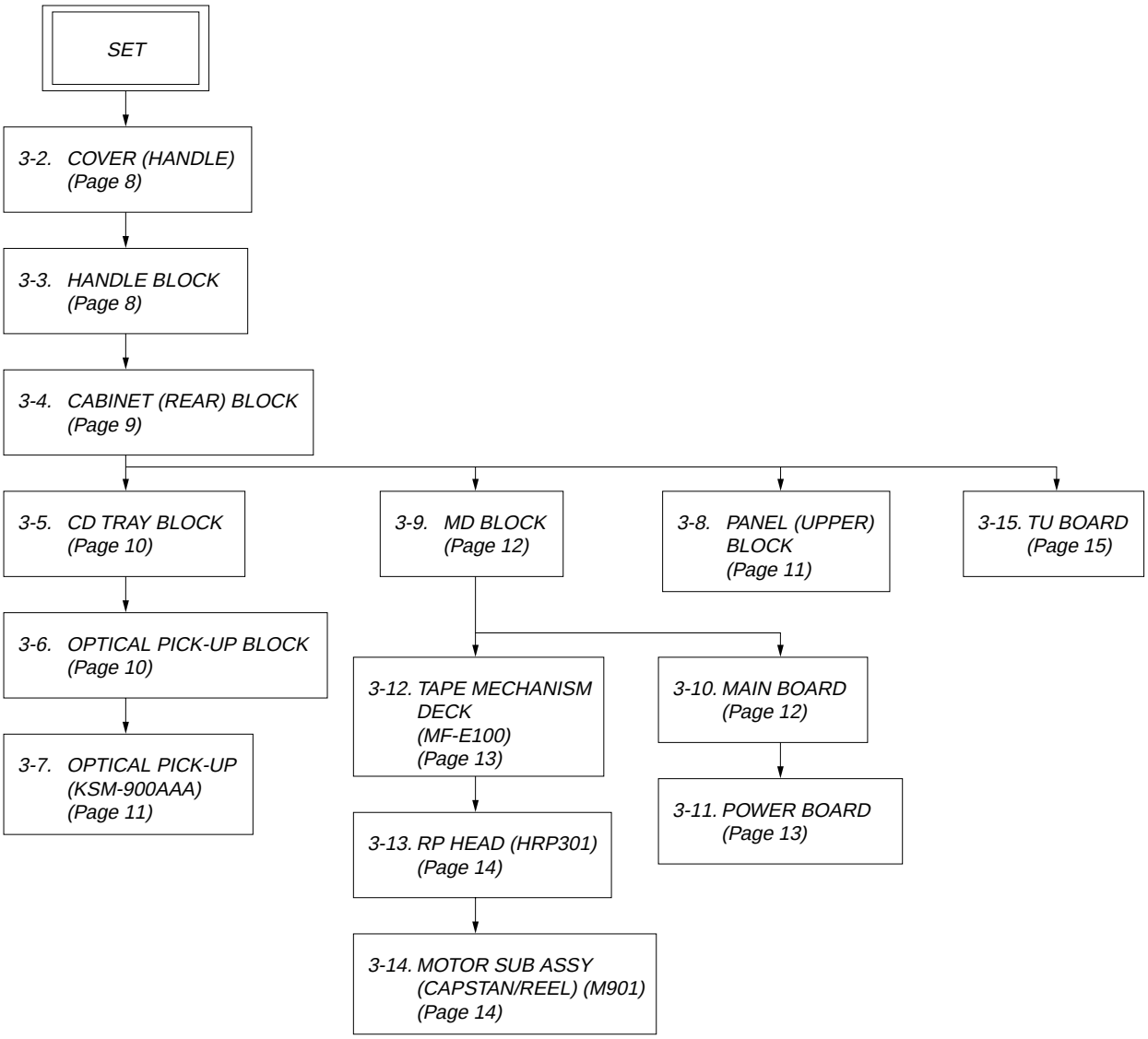
To turn on/off the power

CFD-E100L: Press OPERATE.
CFD-E100: Press POWER.

SECTION 3
DISASSEMBLY

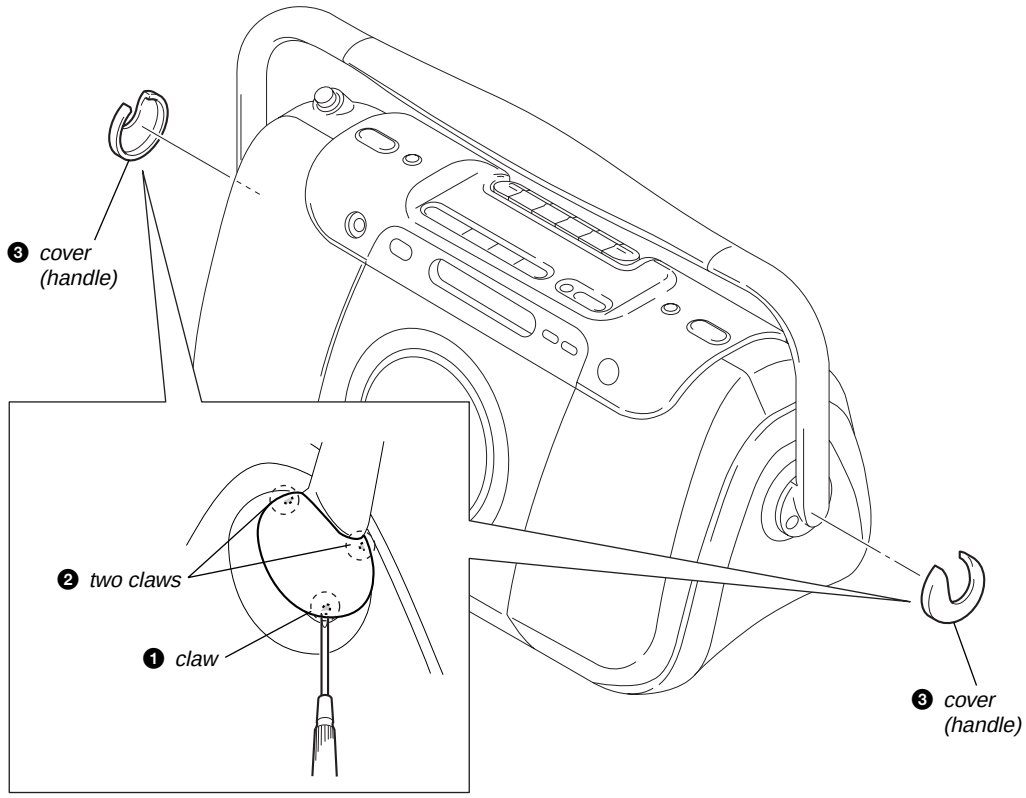
- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

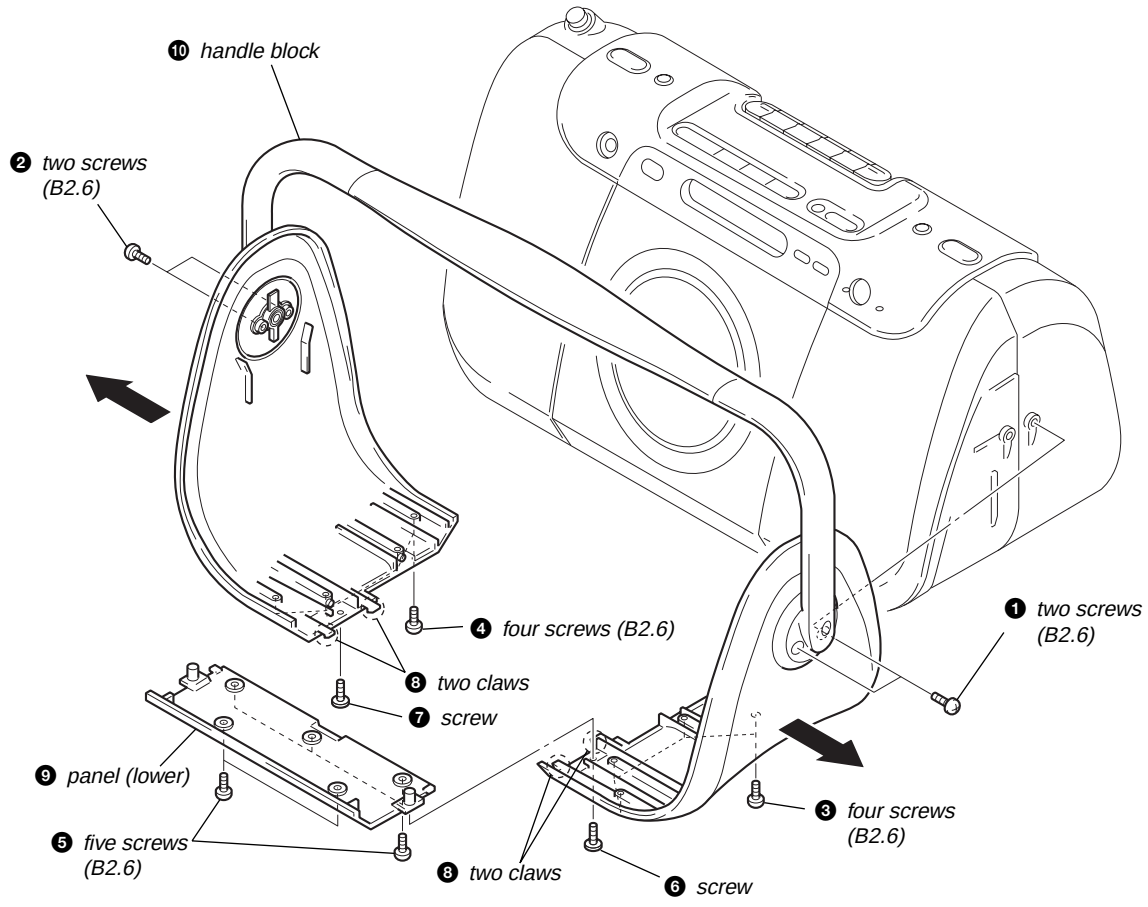

SET
3-2. COVER (HANDLE) (Page 8)
3-3. HANDLE BLOCK (Page 8)
3-4. CABINET (REAR) BLOCK (Page 9)
3-5. CD TRAY BLOCK (Page 10)
3-6. OPTICAL PICK-UP BLOCK (Page 10)
3-7. OPTICAL PICK-UP (KSM-900AAA) (Page 11)
3-9. MD BLOCK (Page 12)
3-12. TAPE MECHANISM DECK (MF-E100) (Page 13)
3-13. RP HEAD (HRP301) (Page 14)
3-14. MOTOR SUB ASSY (CAPSTAN/REEL) (M901) (Page 14)
3-8. PANEL (UPPER) BLOCK (Page 11)
3-10. MAIN BOARD (Page 12)
3-11. POWER BOARD (Page 13)
3-15. TU BOARD (Page 15)

Note: Follow the disassembly procedure in the numerical order given.

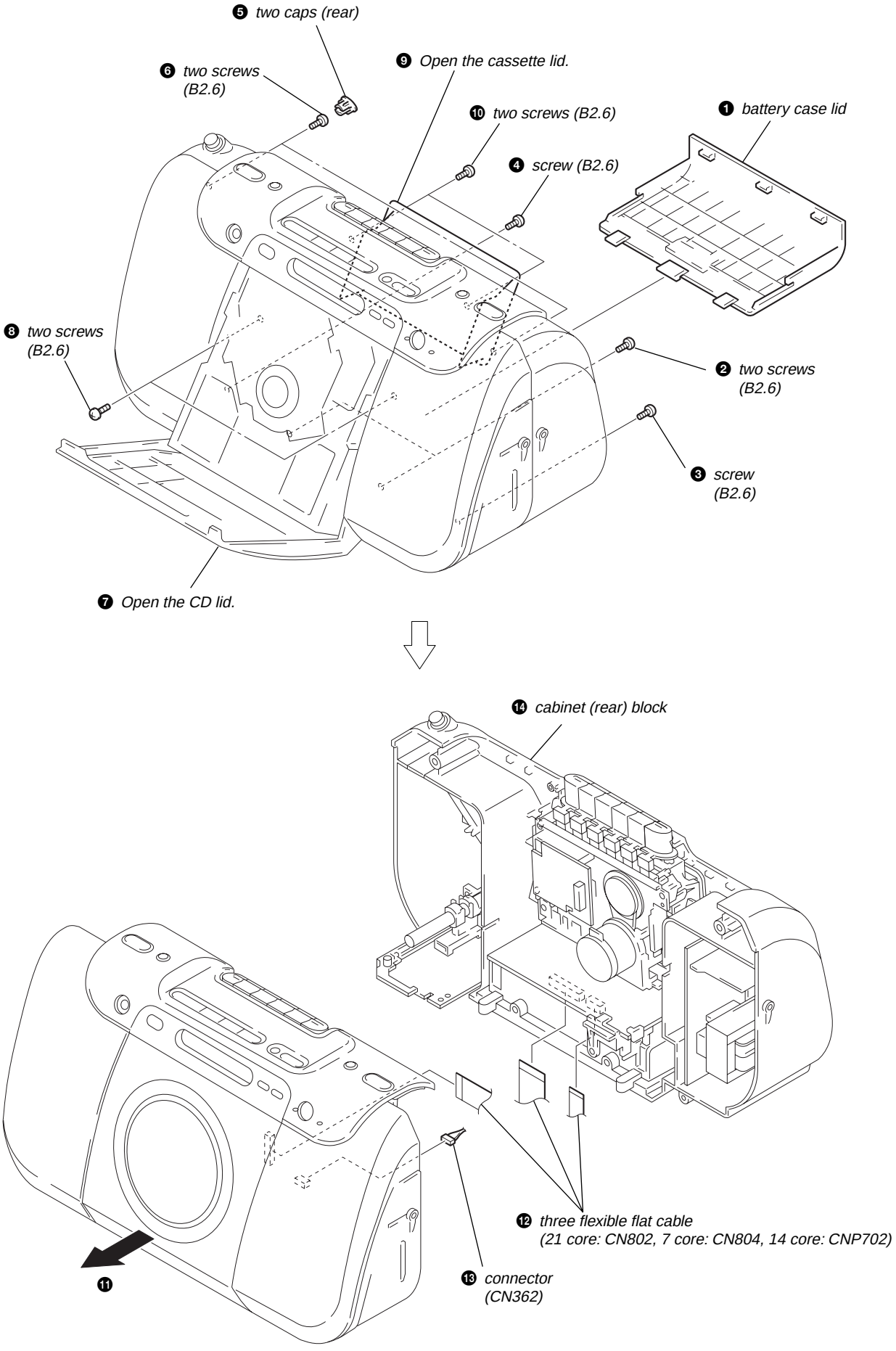
3-2. COVER (HANDLE)



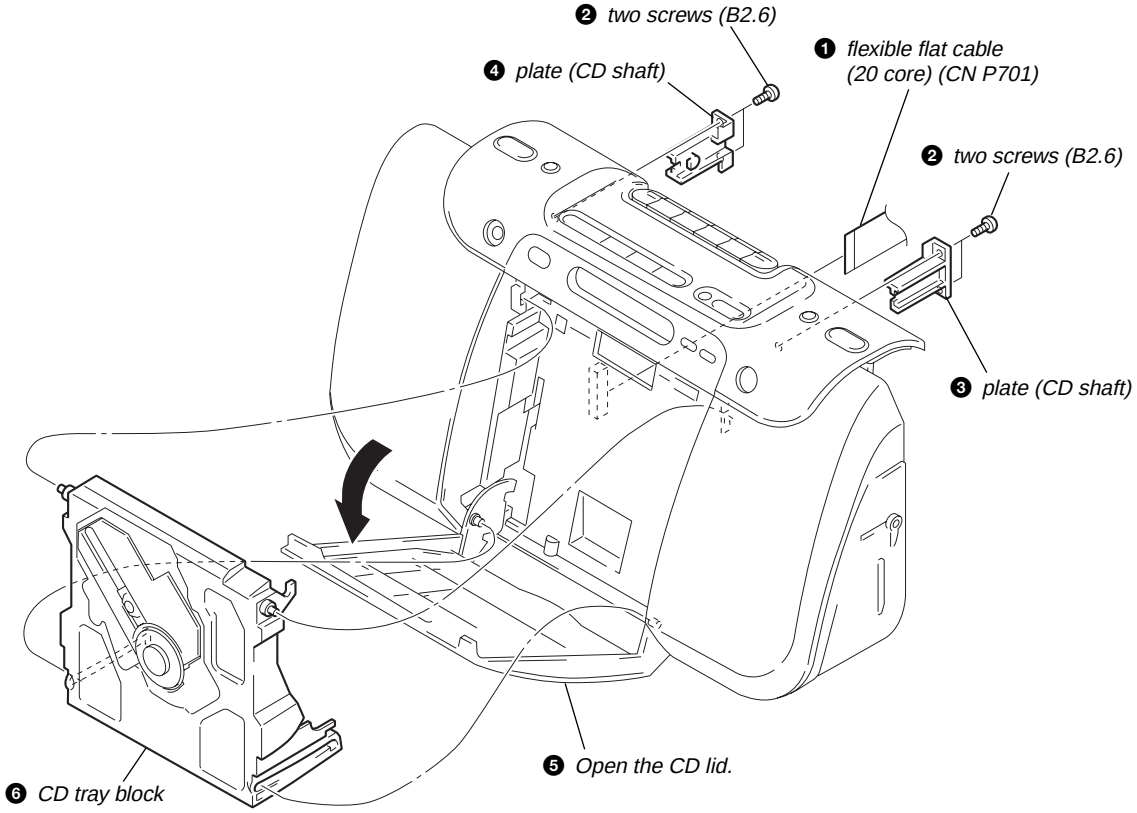
3-3. HANDLE BLOCK



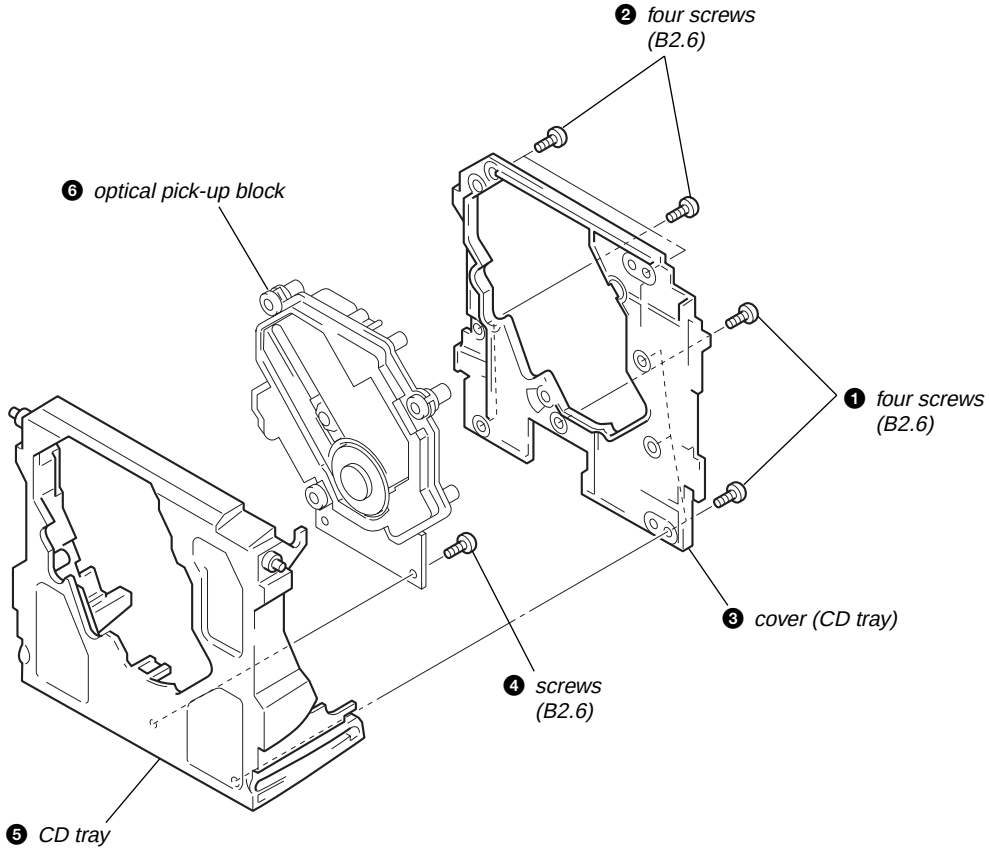
3-4. CABINET (REAR) BLOCK


❺ two caps (rear)
❻ two screws (B2.6)
❾ Open the cassette lid.
❿ two screws (B2.6)
❶ battery case lid
❹ screw (B2.6)
❽ two screws (B2.6)
❷ two screws (B2.6)
❸ screw (B2.6)
❼ Open the CD lid.
⓮ cabinet (rear) block
⓬ three flexible flat cable (21 core: CN802, 7 core: CN804, 14 core: CNP702)
⓭ connector (CN362)
⓫

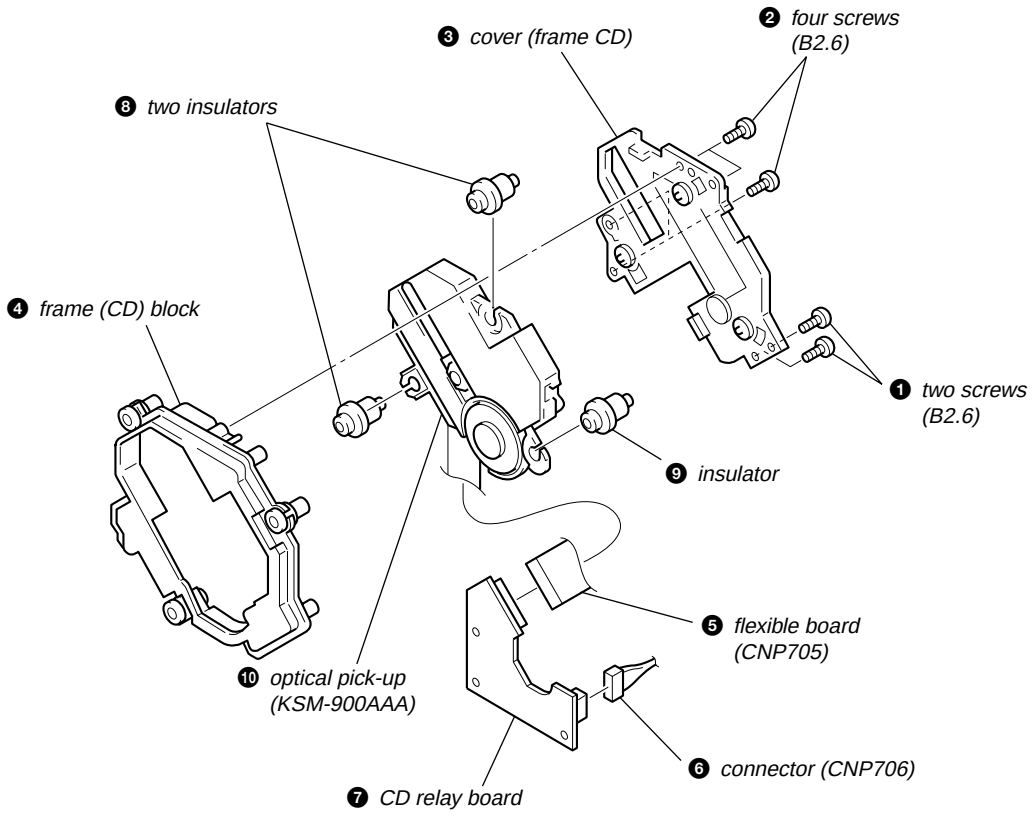
3-5. CD TRAY BLOCK


❷ two screws (B2.6)
❶ flexible flat cable (20 core) (CN P701)
❹ plate (CD shaft)
❷ two screws (B2.6)
❸ plate (CD shaft)
❺ Open the CD lid.
❻ CD tray block

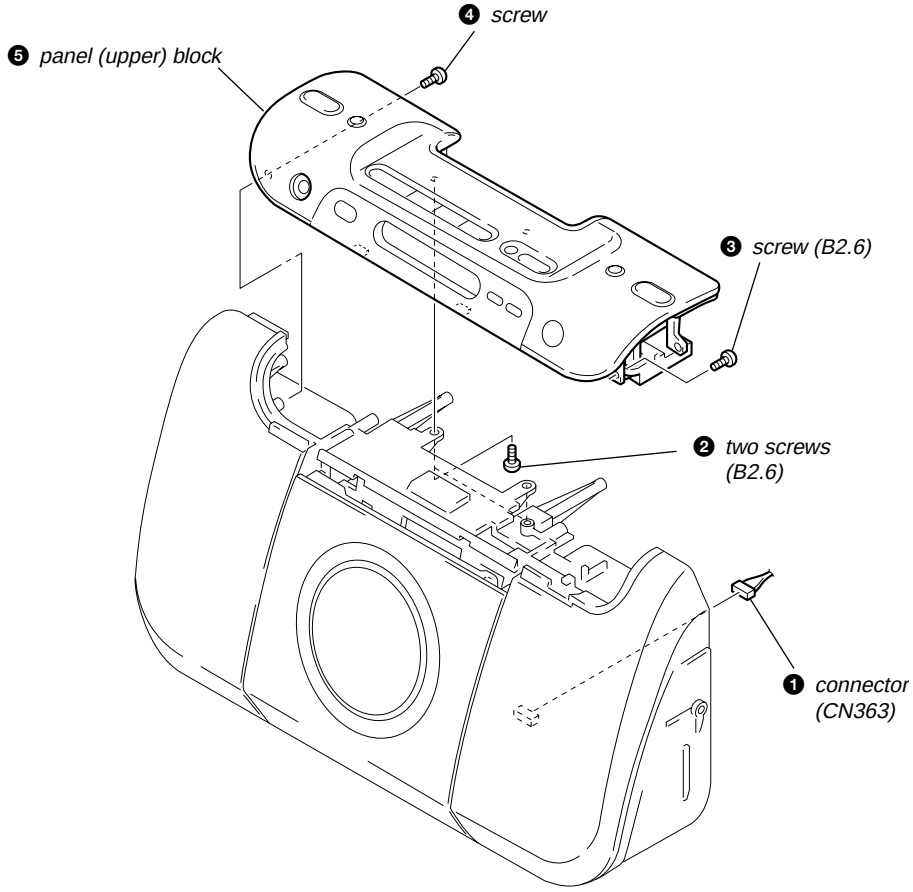
3-6. OPTICAL PICK-UP BLOCK



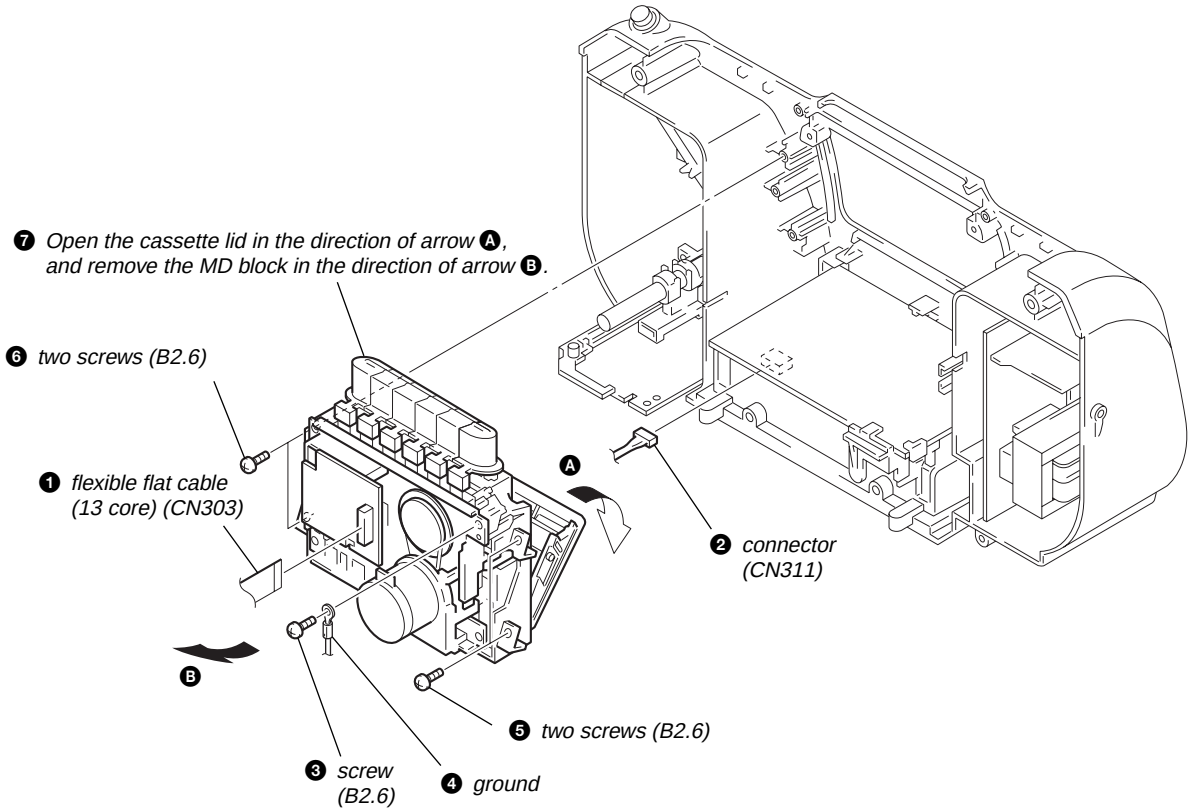
3-7. OPTICAL PICK-UP (KSM-900AAA)



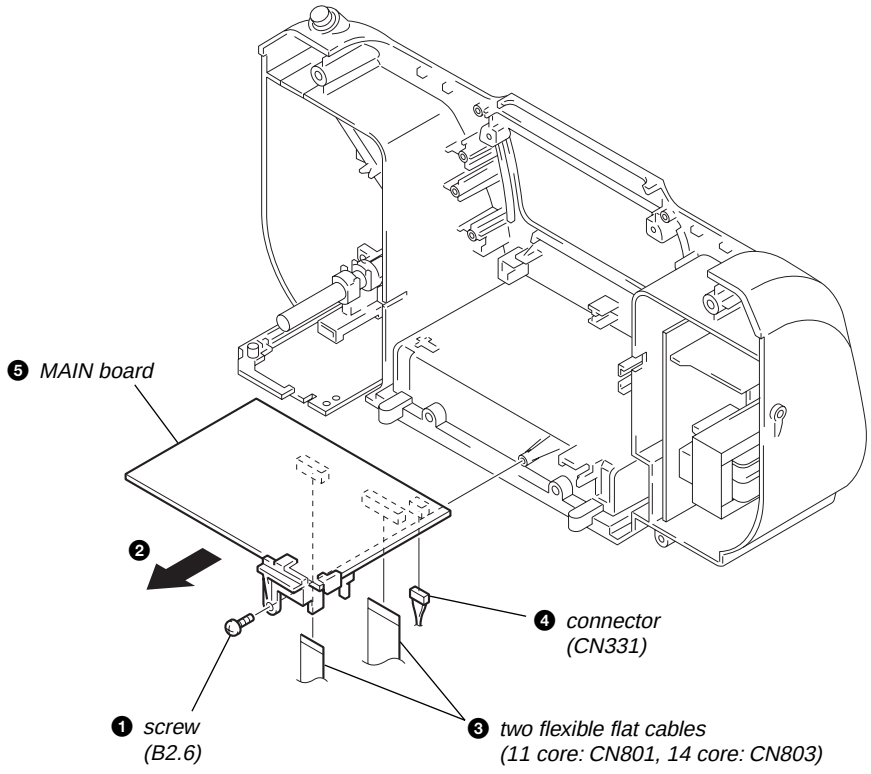
3-8. PANEL (UPPER) BLOCK



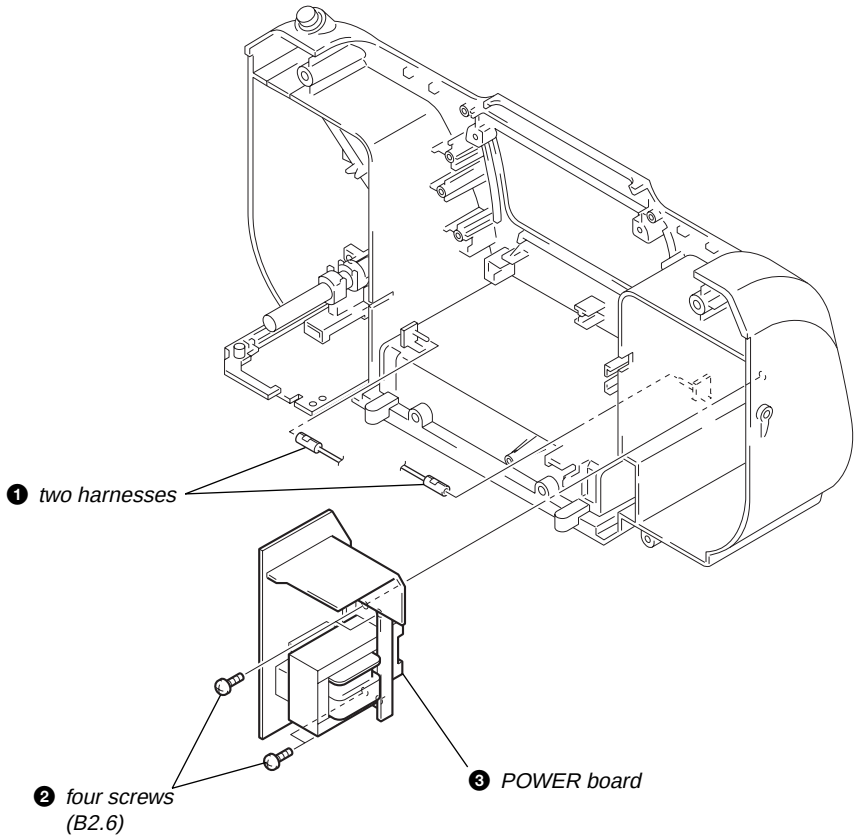
3-9. MD BLOCK


❼ Open the cassette lid in the direction of arrow Ⓐ, and remove the MD block in the direction of arrow Ⓑ.
❻ two screws (B2.6)
❶ flexible flat cable (13 core) (CN303)
Ⓐ
❷ connector (CN311)
Ⓑ
❺ two screws (B2.6)
❸ screw (B2.6)
❹ ground

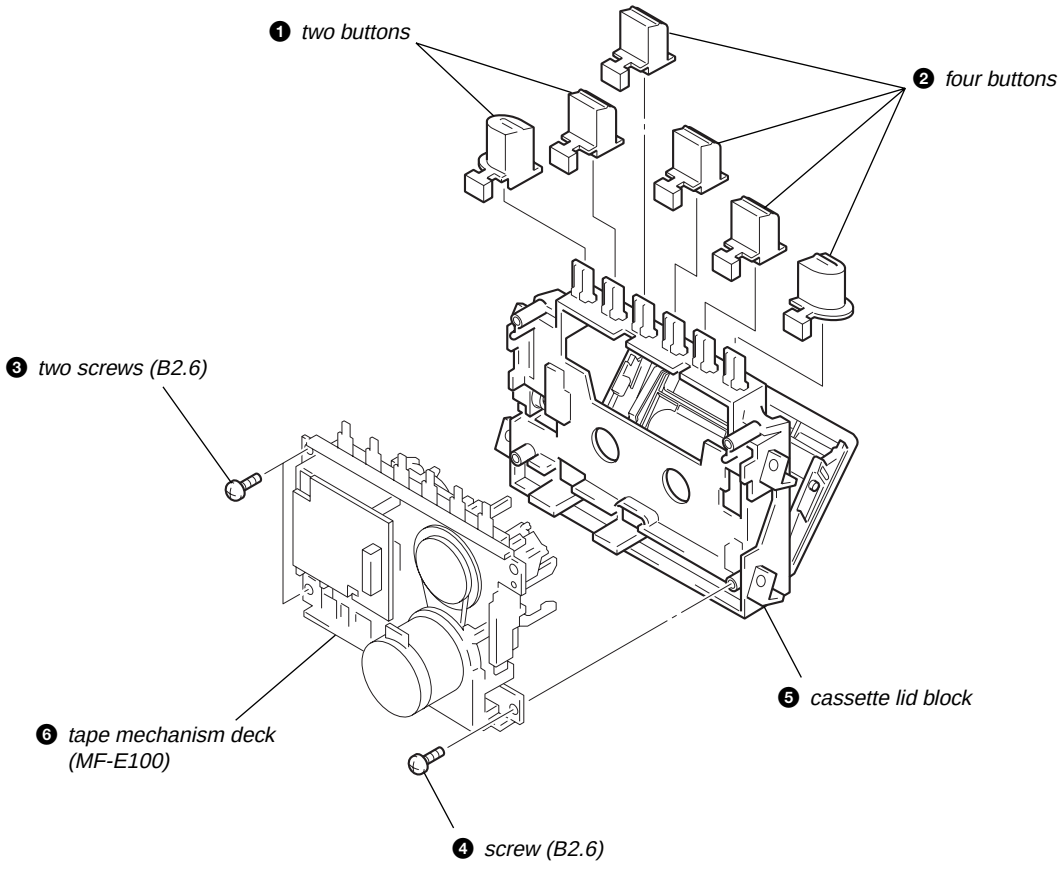
3-10. MAIN BOARD



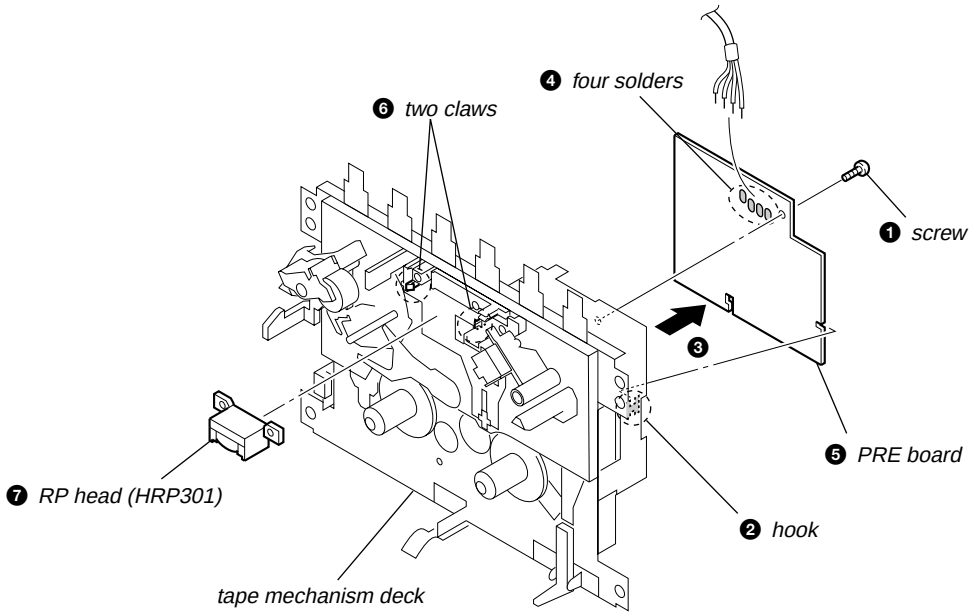
3-11. POWER BOARD



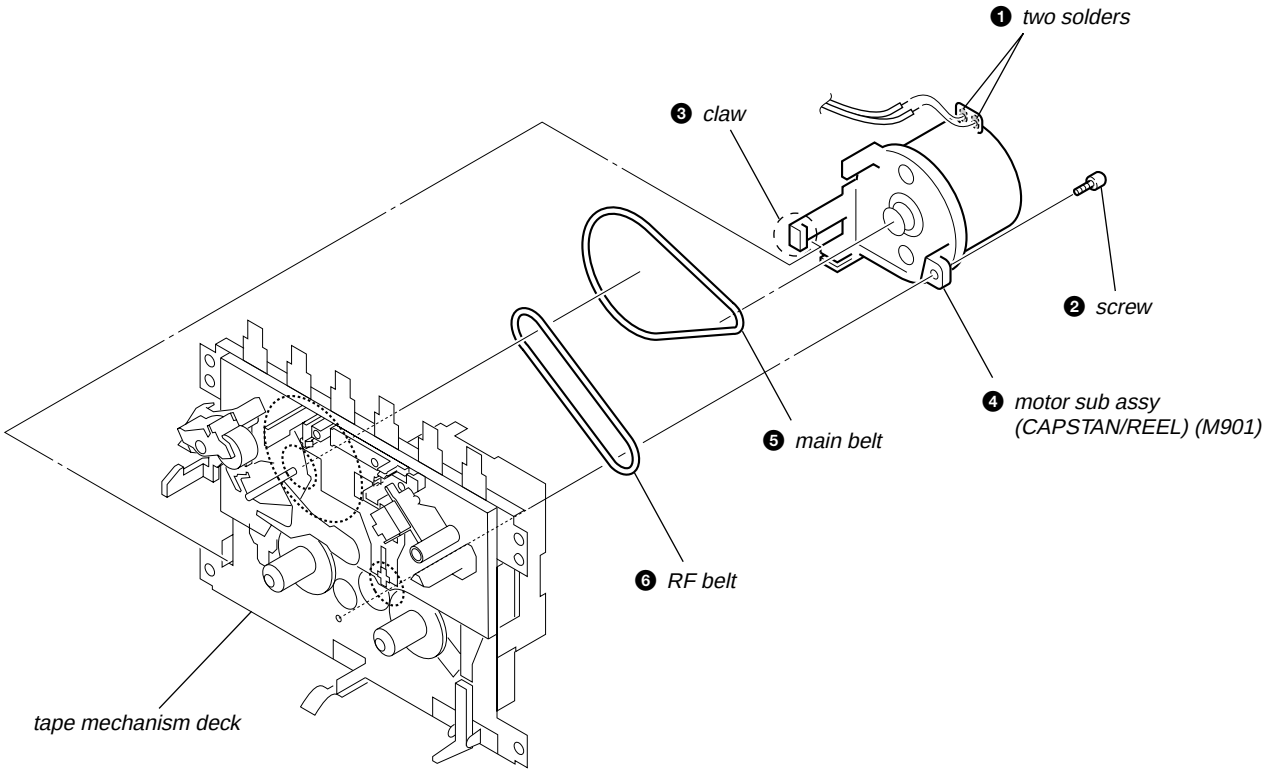
3-12. TAPE MECHANISM DECK (MF-E100)



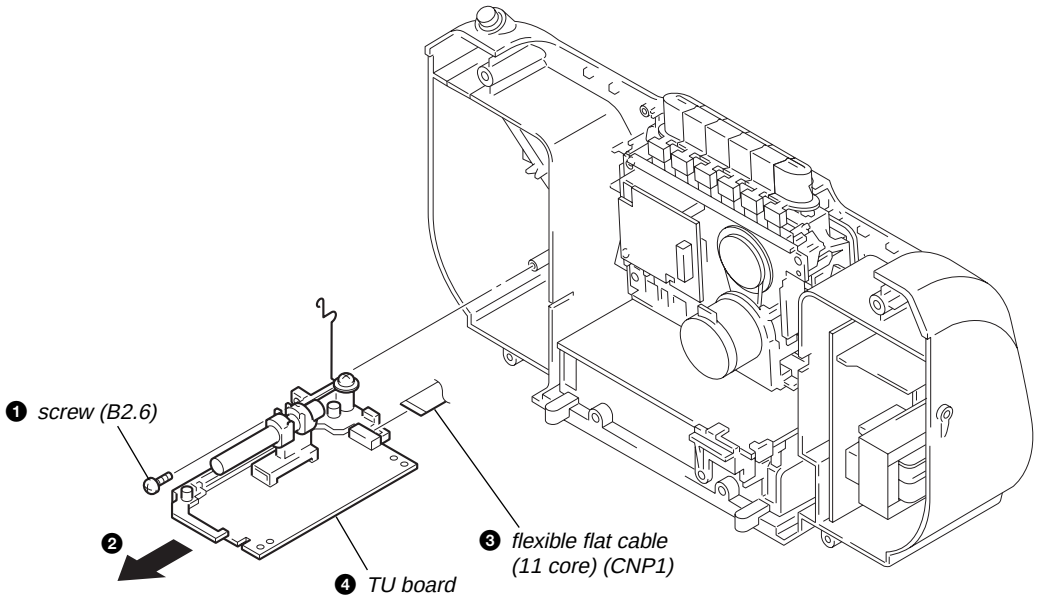
3-13. RP HEAD (HRP301)



3-14. MOTOR SUB ASSY (CAPSTAN/REEL) (M901)



3-15. TU BOARD



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	2.95 – 6.86 mN•m (30 – 70 g•cm) (0.42 – 0.97 oz•inch)
FWD Back Tension	CQ-102C	0.15 – 5.39 mN•m (1.5 – 5.5 g•cm) (0.021 – 0.076 oz•inch)
FF	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)
REW	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Setting
   MEGABASS control : OFF

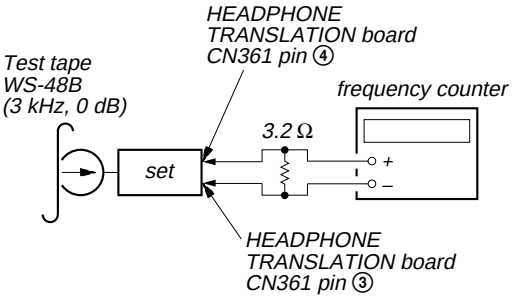
TAPE DECK SECTION | 0 dB=0.775 V

Test tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

TAPE SPEED ADJUSTMENT

Setting:
Function: TAPE



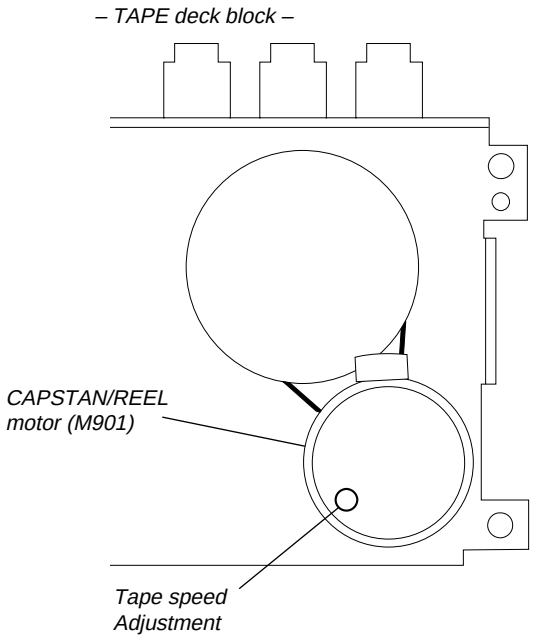
Procedure:

1. Playback WS-48B (tape center) in the FWD state.
2. Adjsut the volume in CAPSTAN/REEL motor (M901) so that the frequency counter reading becomes 3,000 Hz.

Specified Value: 2,910 to 3,090 Hz

3. Confirm that the frequency at the beginning and that at the end of tape winding are between 2,940 to 3,060 Hz.

Adjustment Location:



Sample Value of Wow and Flutter: 03% or less W. RMS (JIS)
(WS-48B)

TUNER SECTION

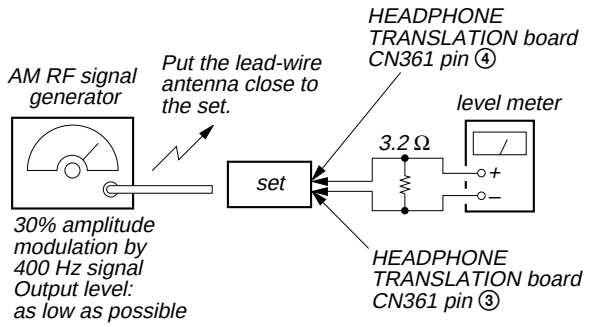
0 dB=1 µV

[AM]

Setting:

Function: RADIO

Band: AM

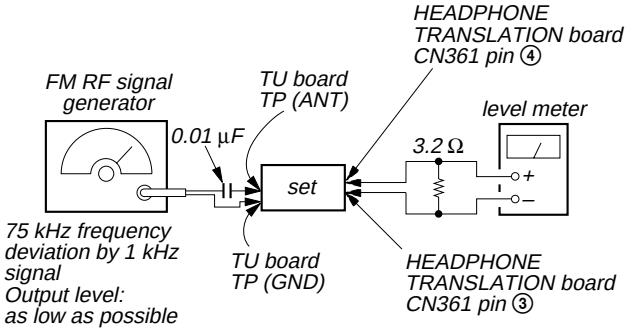

AM RF signal generator
Put the lead-wire antenna close to the set.
HEADPHONE TRANSLATION board CN361 pin ④
level meter
3.2 Ω
set
30% amplitude modulation by 400 Hz signal
Output level: as low as possible
HEADPHONE TRANSLATION board CN361 pin ③

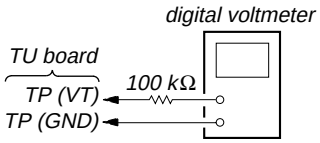
[FM]

Setting:

Function: RADIO

Band: FM


HEADPHONE TRANSLATION board CN361 pin ④
FM RF signal generator
TU board TP (ANT)
level meter
0.01 µF
3.2 Ω
set
75 kHz frequency deviation by 1 kHz signal
Output level: as low as possible
TU board TP (GND)
HEADPHONE TRANSLATION board CN361 pin ③



- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.
- Remove FM antenna in FM adjustment.

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
T1	450 kHz

( ): Singapore, Taiwan, Korean model

AM CV VOLTAGE ADJUSTMENT (CFD-E100 only)		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	530 kHz (531 kHz)	1.0 ± 0.05 V
Confirmation	1,710 kHz (1,611 kHz)	5.3 ± 0.7 V (4.8 ± 0.7 V)

LW CV VOLTAGE ADJUSTMENT (CFD-E100L only)		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	153 kHz	0.6 ± 0.05 V
Confirmation	279 kHz	5.3 ± 0.7 V

MW CV VOLTAGE ADJUSTMENT (CFD-E100L only)		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
Confirmation	531 kHz	0.9 ± 0.4 V
Confirmation	1,611 kHz	5.2 ± 0.5 V

( ): Singapore, Taiwan, Korean model

AM TRACKING ADJUSTMENT (CFD-E100 only)	
Adjust for a maximum reading on level meter	
L3	620 kHz (621 kHz)
CT3	1,400 kHz (1,404 kHz)

MW TRACKING ADJUSTMENT (CFD-E100L only)	
Adjust for a maximum reading on level meter	
L3-1	621 kHz
CT3	1,404 kHz

LW TRACKING ADJUSTMENT (CFD-E100L only)	
Adjust for a maximum reading on level meter	
L3-2	162 kHz
CT5	261 kHz

FM IF ADJUSTMENT	
Adjust for a minimum reading on level meter	
T2	10.7 MHz

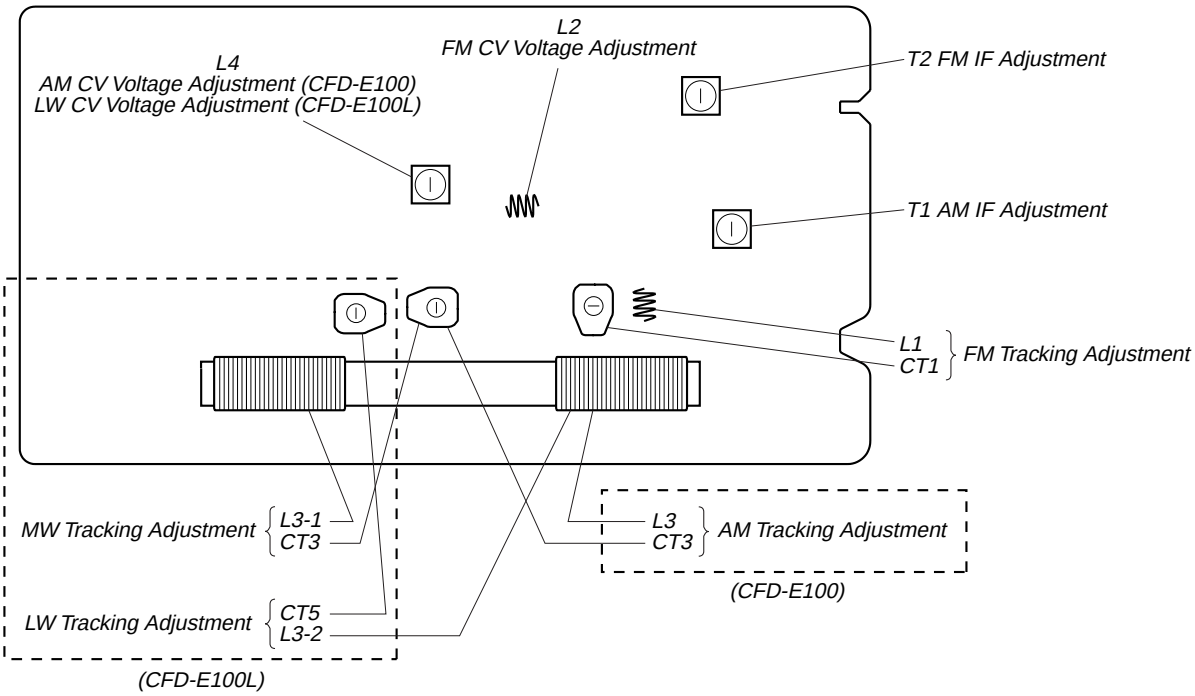
FM CV VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L2	108 MHz	3.0 ± 0.2 V
Confirmation	87.5 MHz	1.3 ± 0.3 V

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L1	87.5 MHz
CT1	108 MHz

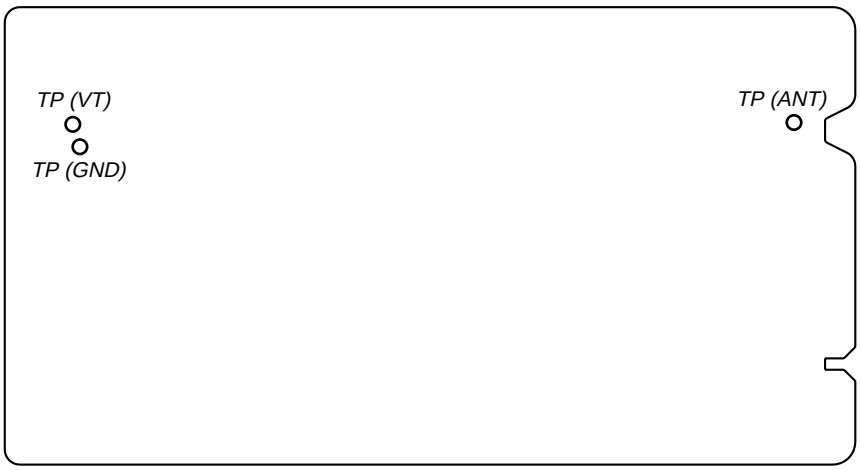
Adjustment Location: TU board (See page 18)

Adjustment Location:

– TU BOARD (Component Side) –



– TU BOARD (Conductor Side) –



CD SECTION

Perform all CD section check in the test mode.

ENTERING THE CD TEST MODE

Procedure:

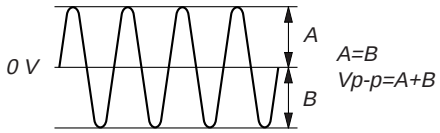
1. Insert the test disc (YEDS-18 (part No. 3-702-101-01)).
2. Press the [POWER] button to turn the power on.
3. While pressing the [DISPLAY, ENTER] and [VOLUME +] buttons, open and close the CD lid, and release two buttons.
4. If the CD test mode is activated, all segments of the LCD light up.
5. To release this mode, press the [POWER]] button to turn the power off.

TRAVERSE CHECK

Procedure:

1. Connect an oscilloscope to TP (TE) and TP (VREF) on the CD board.
2. Set the CD test mode.
3. Press the [▶II] button twice to display "FC".
4. Confirm that the center of the oscilloscope waveform is at 0 V.
5. Confirm that the oscilloscope waveform Vp-p value is at 1 ± 0.5 V.

VOLT/DIV: 0.2 V (with the 10:1 probe in use)
TIME/DIV : 1 ms



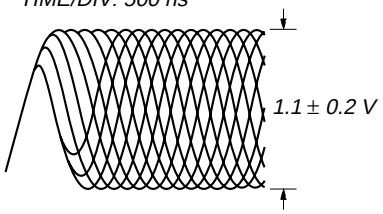
RF LEVEL CHECK

Procedure:

1. Connect the oscilloscope to TP (RF) and TP (VREF) on the CD board.
2. Set the CD test mode.
3. Press the [▶II] button twice to display "A–".
   Note: If this check is performed continuously after the TRAVERSE CHECK, press the [▶II] button once.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

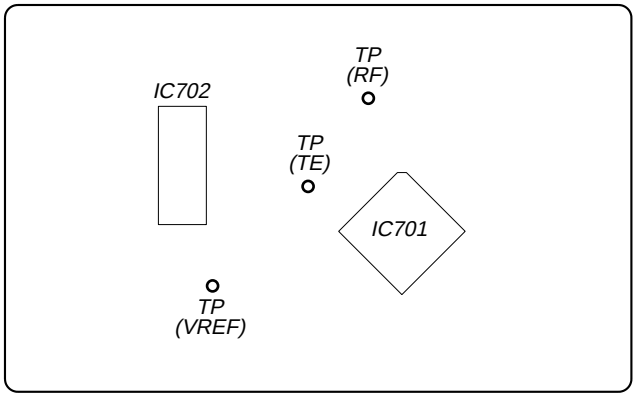
VOLT/DIV: 0.2 V (with the 10: 1 probe in use.)
TIME/DIV: 500 ns



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Connecting Location:

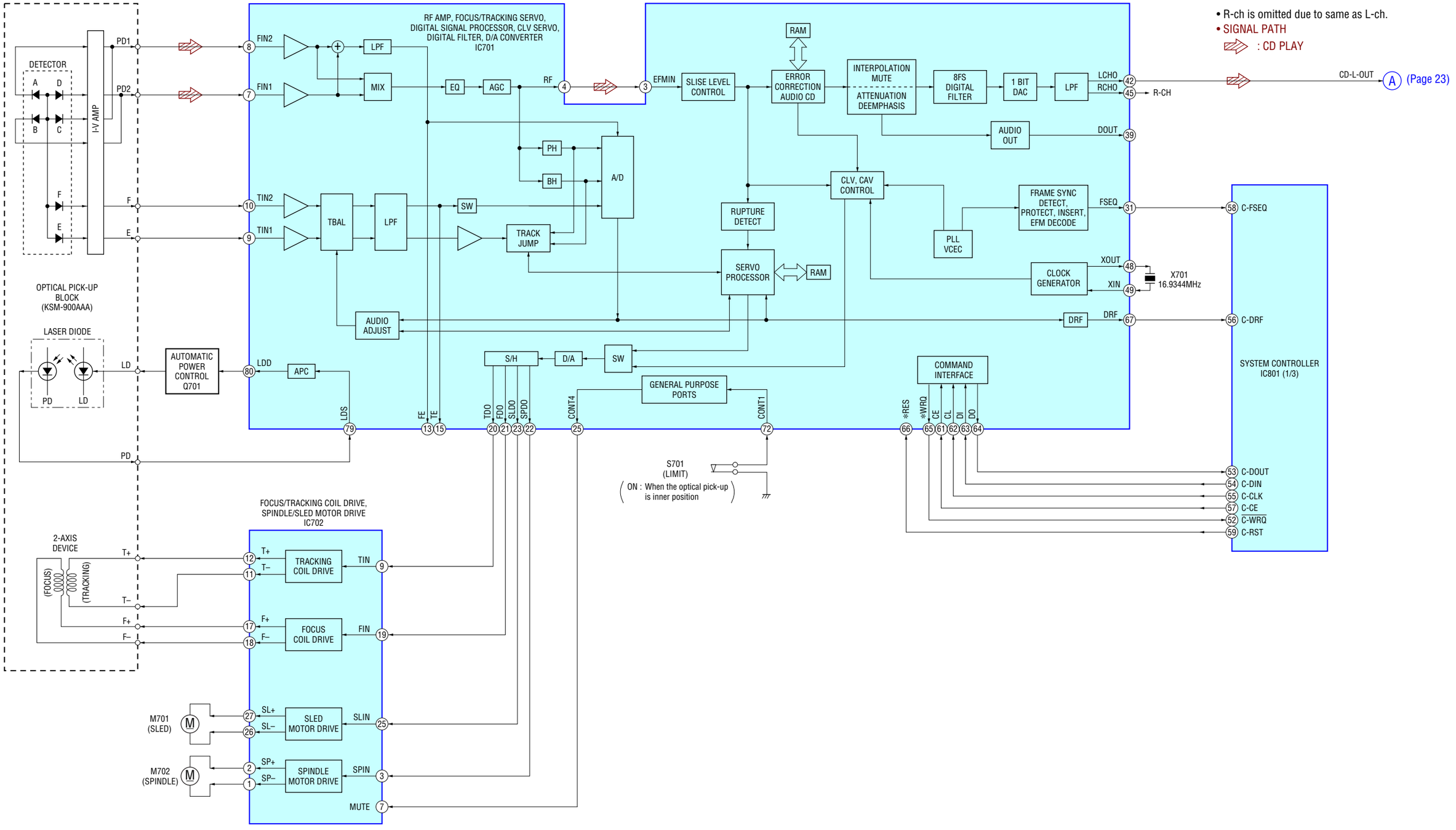
– CD BOARD (Conductor Side) –



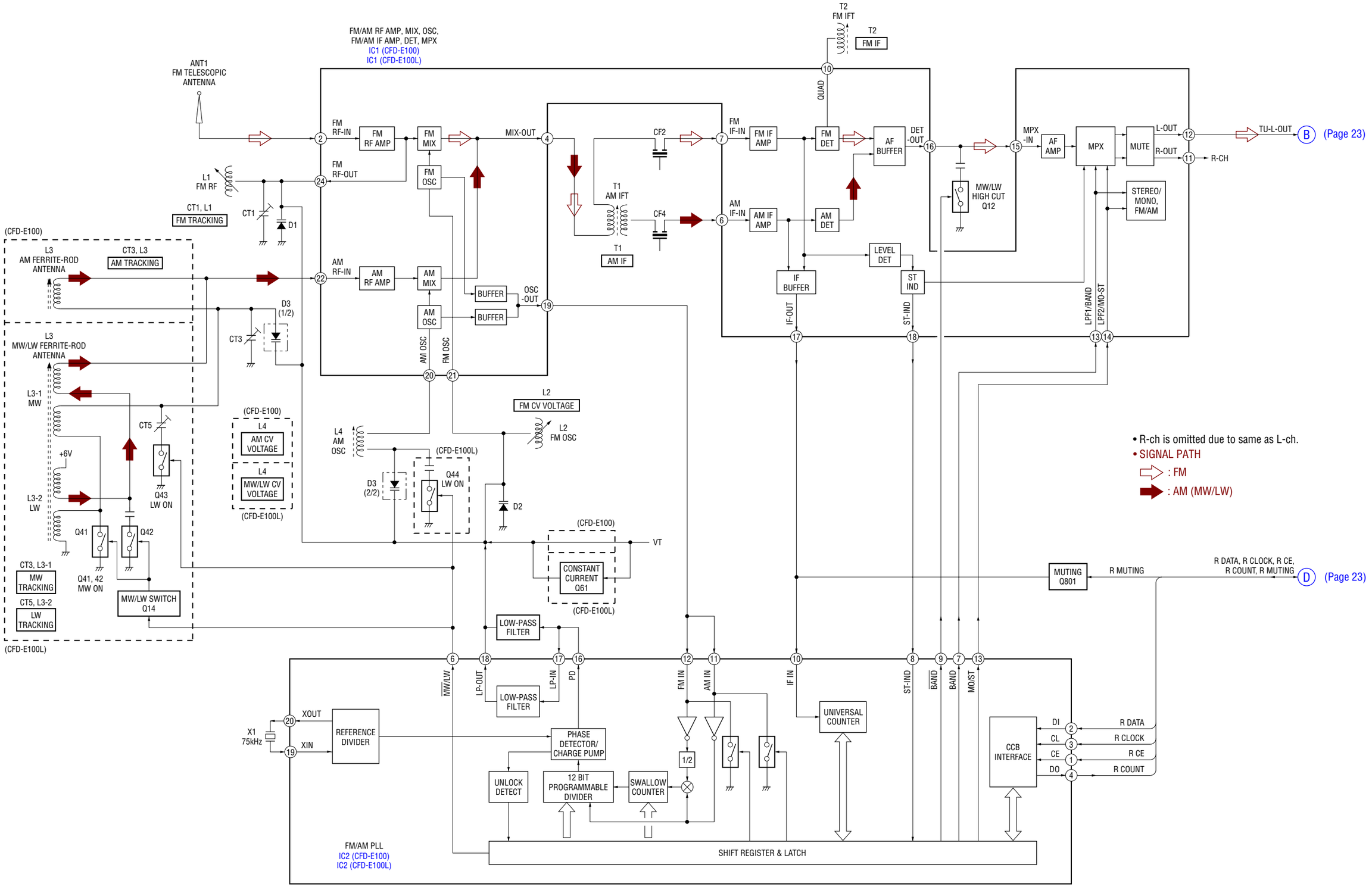
MEMO

SECTION 6
DIAGRAMS

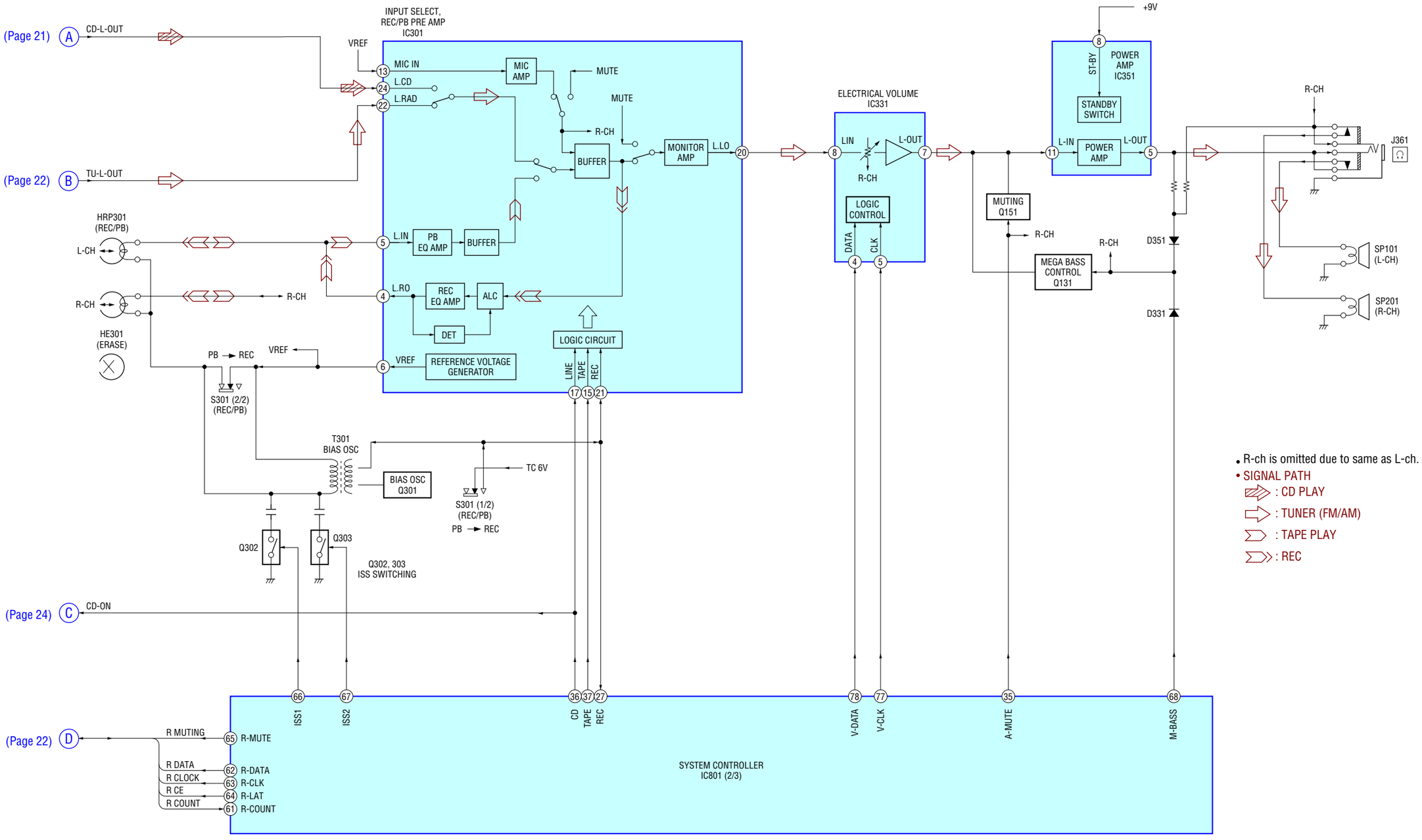
6-1. BLOCK DIAGRAM – SERVO Section –



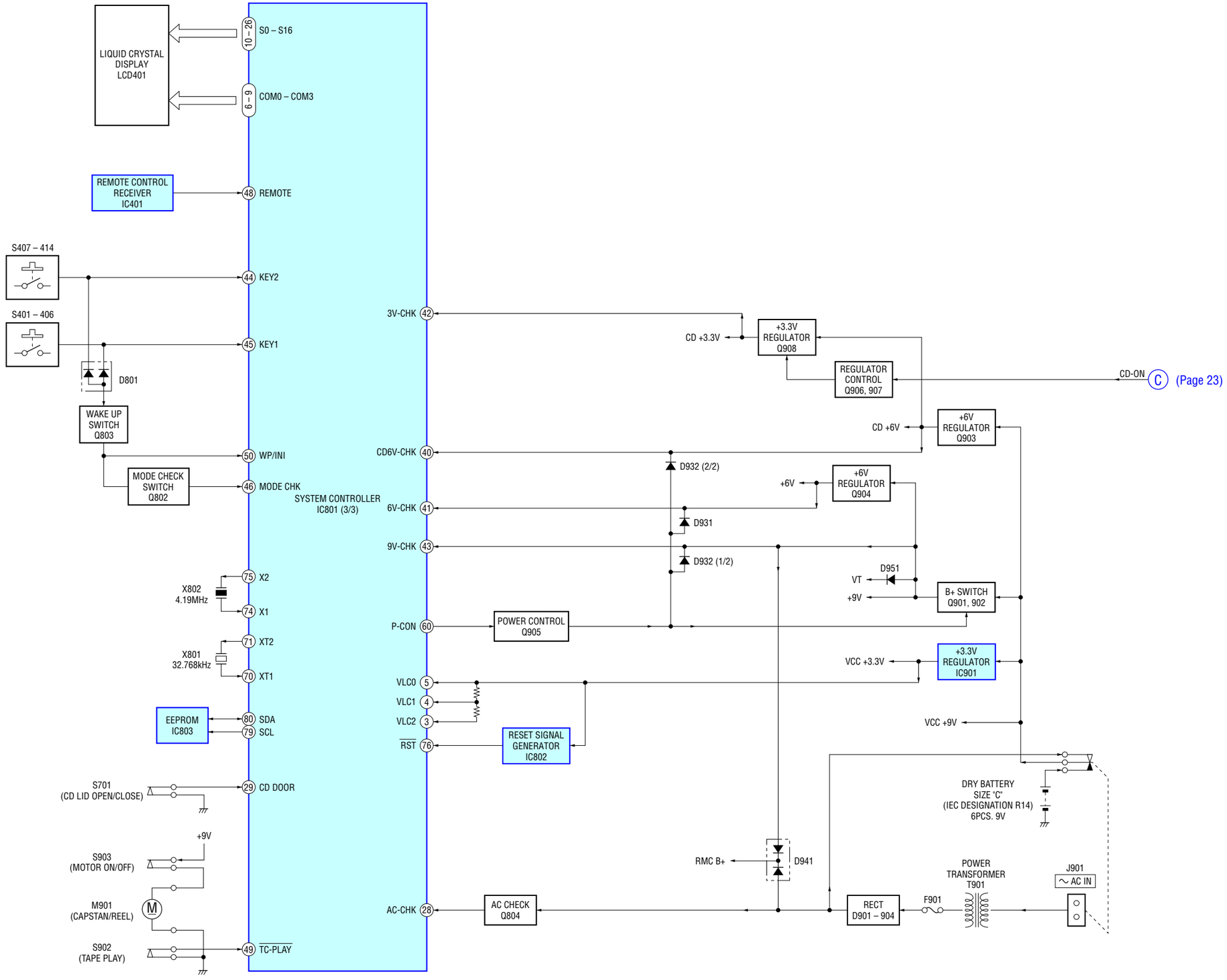
6-2. BLOCK DIAGRAM – TUNER Section –



6-3. BLOCK DIAGRAM – AUDIO Section –



6-4. BLOCK DIAGRAM – PANEL, POWER SUPPLY Section –



• Note for Printed Wiring Boards and Schematic Diagrams

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ⊡← : indicates side identified with part number.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

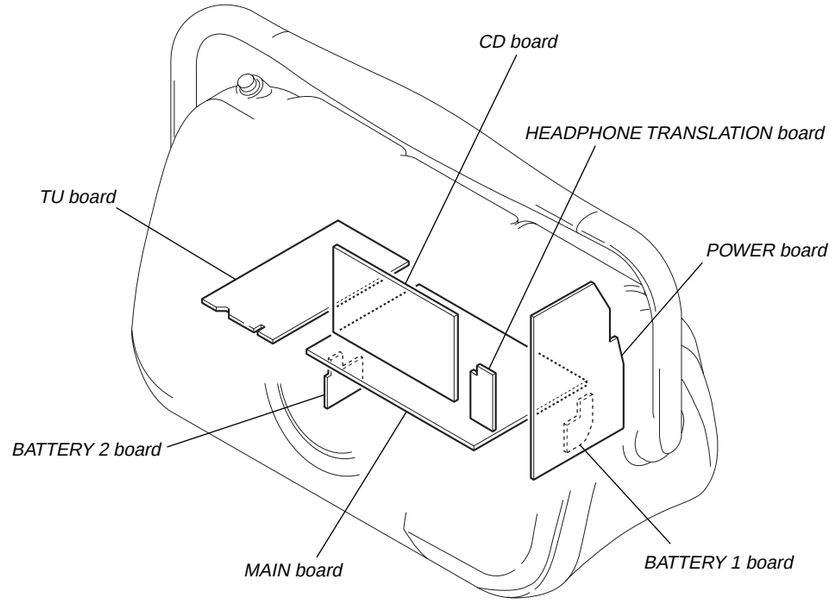
Note on Schematic Diagram:

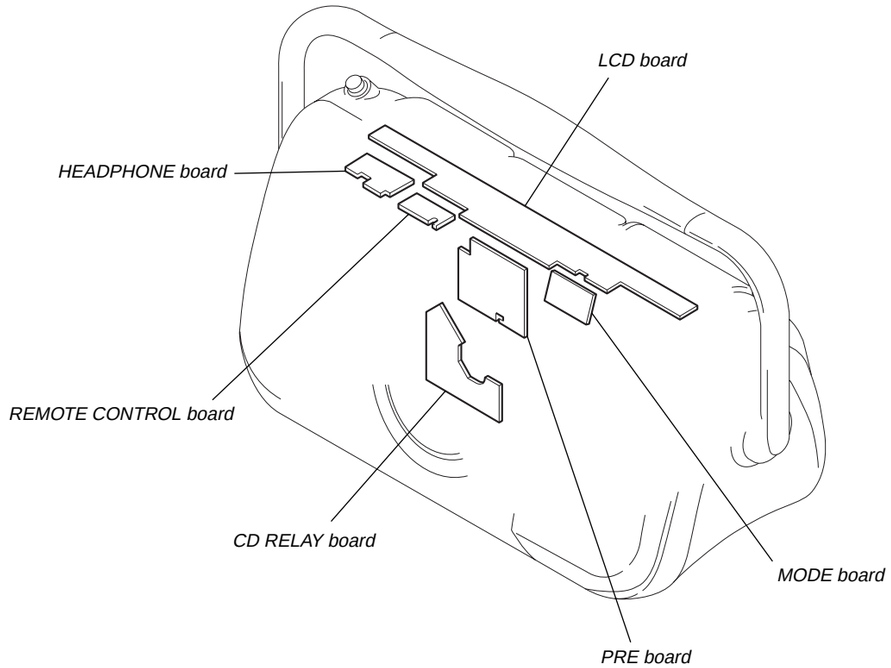
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
  – CD Section –
  [ ] : CD PLAY
  – TUNER Section –
  no mark : FM
  ( ) : AM (MW)
  < > : LW
  – Other Section –
  no mark : TUNER
  ( ) : CD PLAY
  ⟨⟨ ⟩⟩ : TAPE PLAY
  [ ] : REC
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM (MW/LW)
  ⇨ : CD PLAY
  ⇨ : TAPE PLAY
  ⇨ : REC
- Abbreviation
  CND : Canadian model
  EE : East European model
  IT : Italian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

• Circuit Boards Location

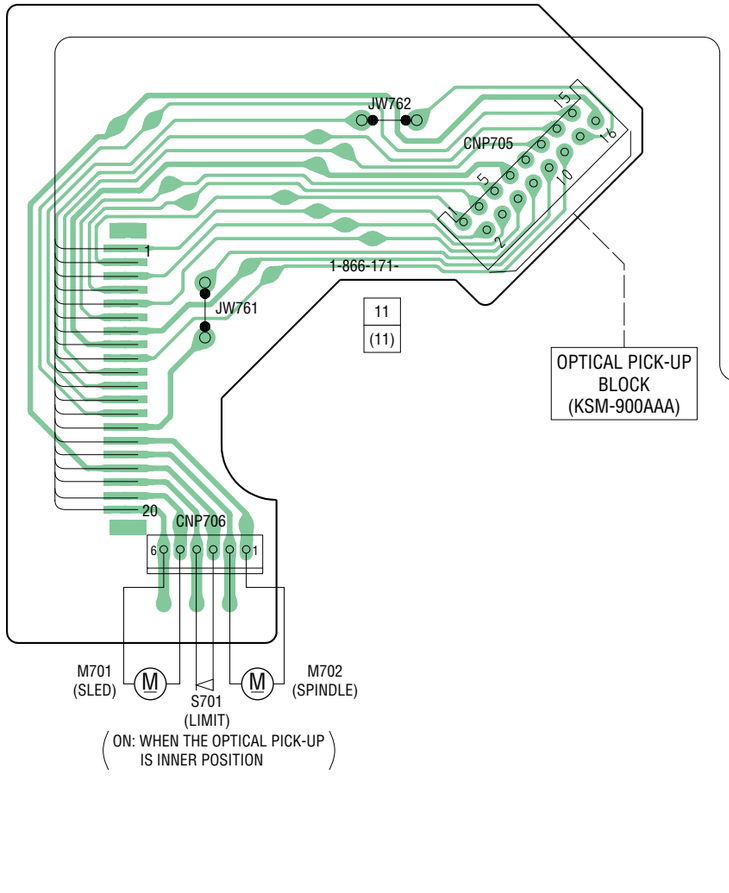




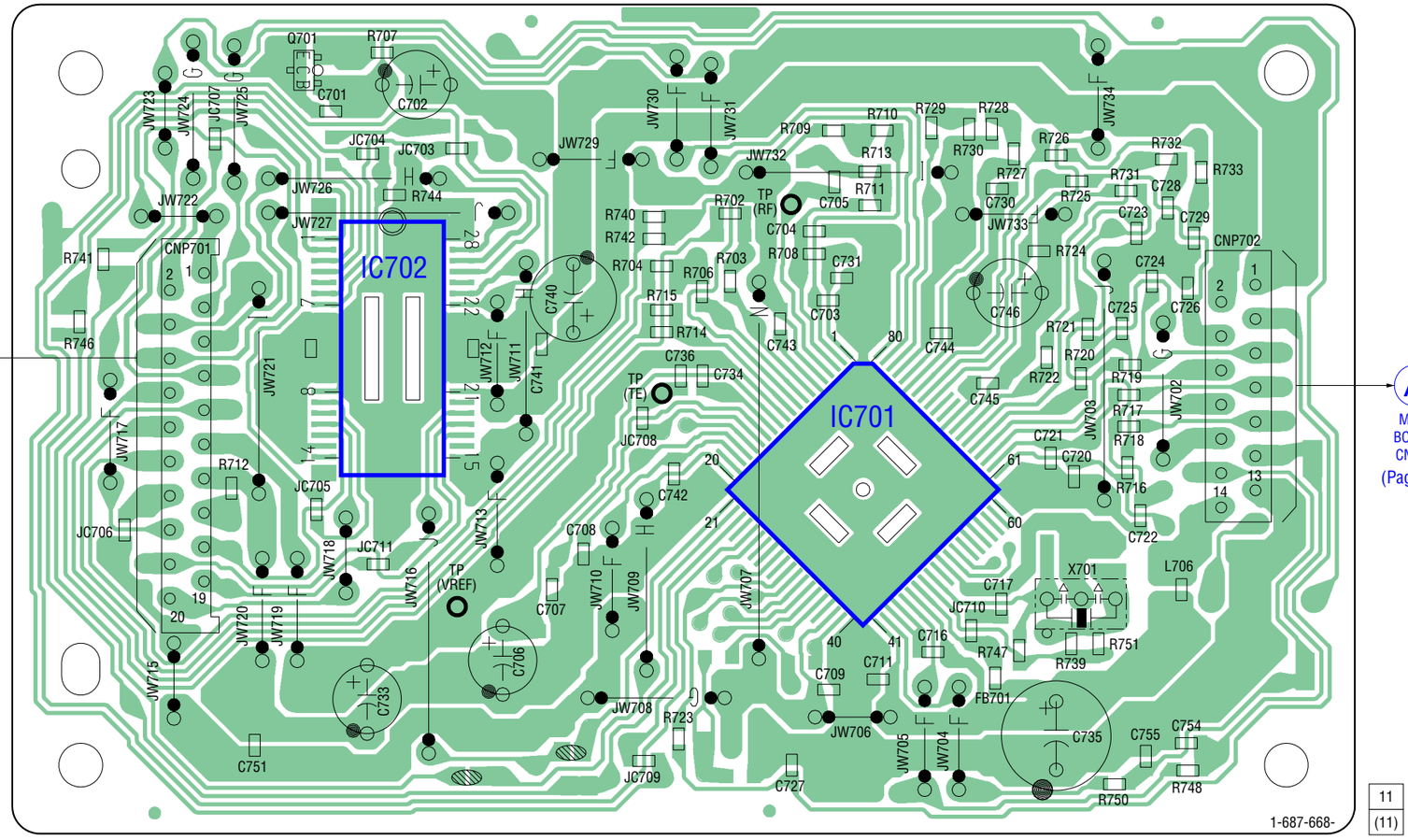
6-5. PRINTED WIRING BOARDS – CD Section –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

【CD RELAY BOARD】



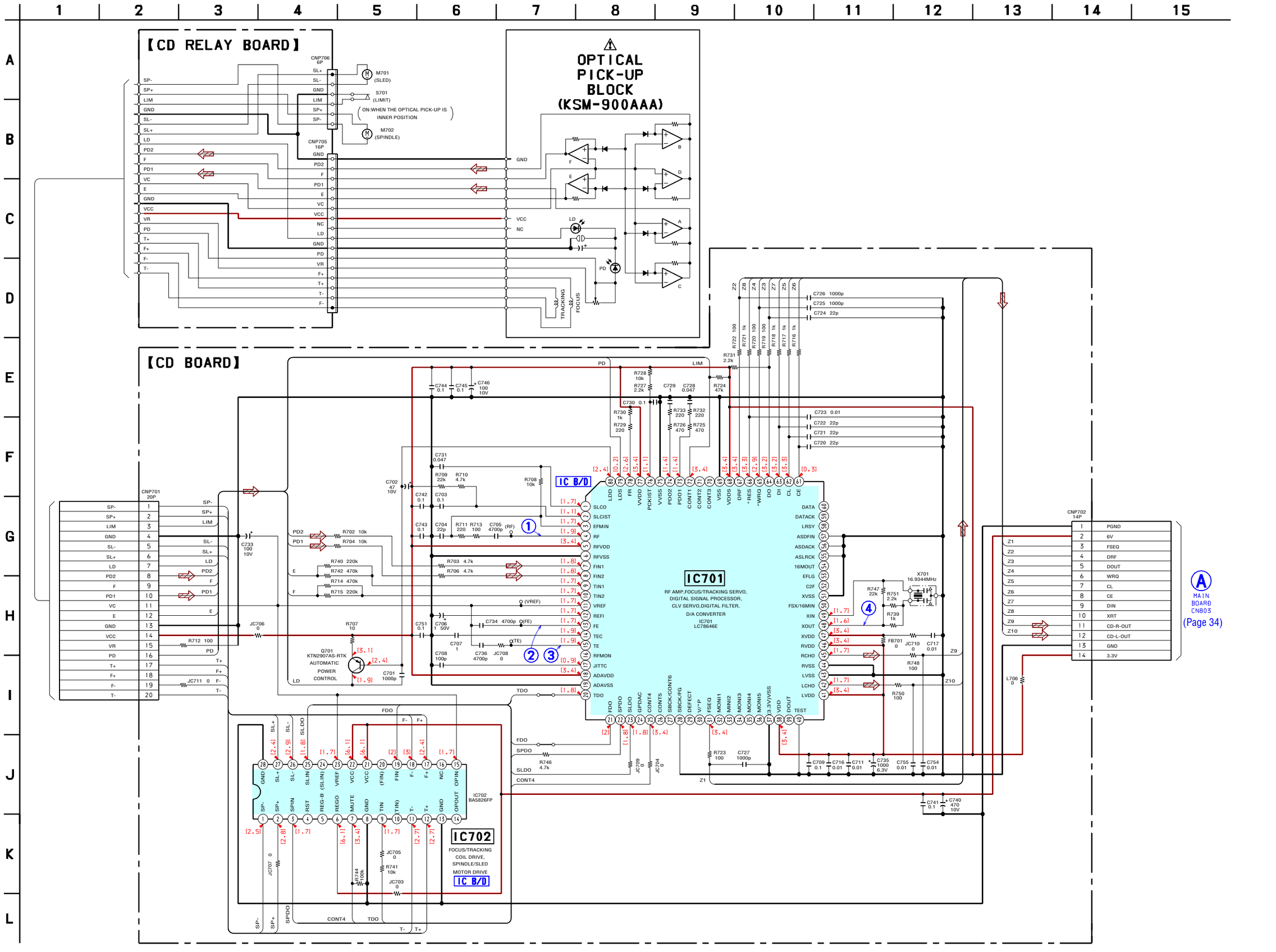
【CD BOARD】



A
MAIN
BOARD
CN803
(Page 33)

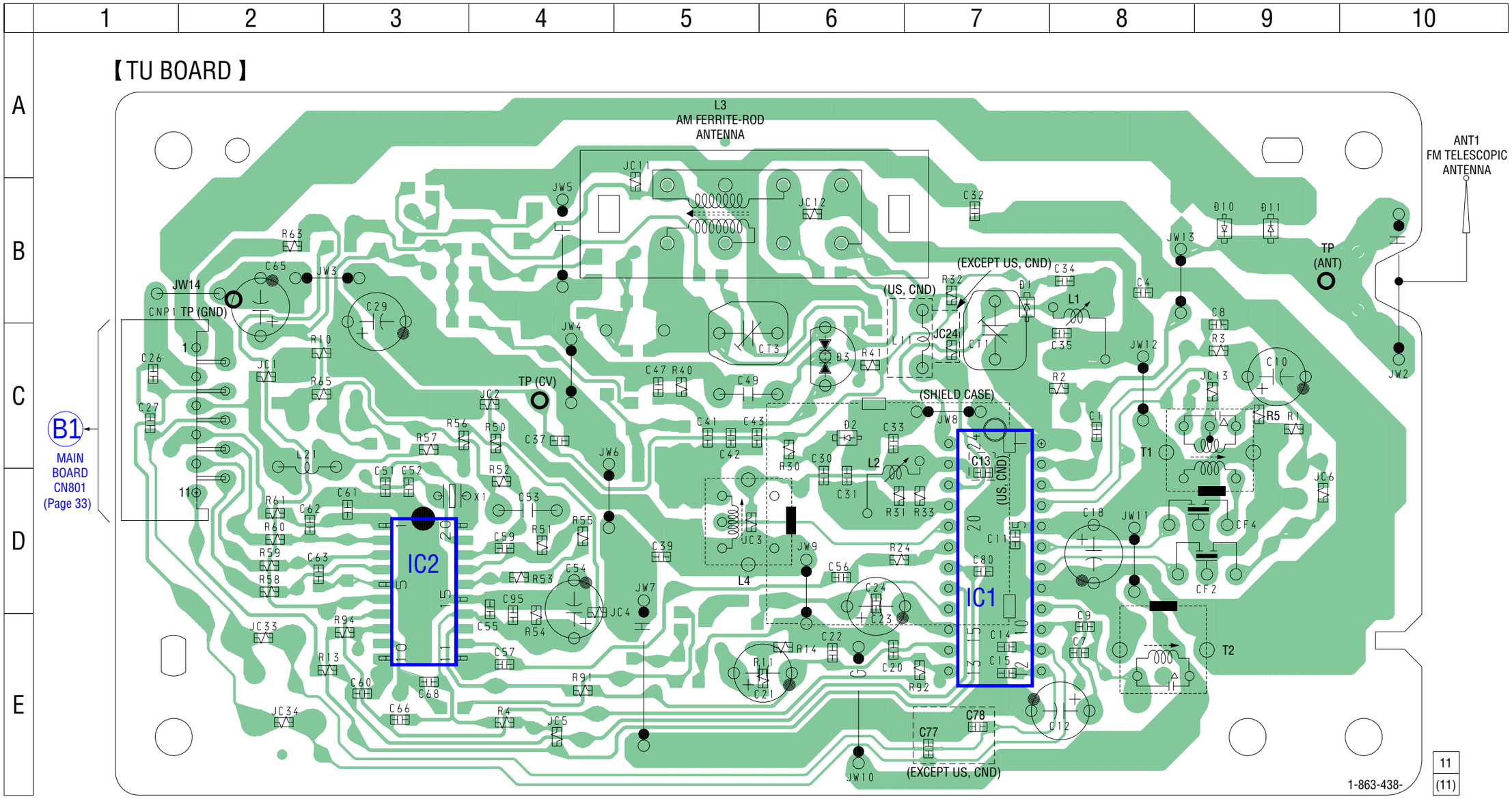
6-6. SCHEMATIC DIAGRAM – CD Section –

• See page 40, 41 for IC Block Diagrams. • See page 39 for Waveforms.



6-7. PRINTED WIRING BOARD – TUNER Section (CFD-E100 Only) –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.



- **Semiconductor Location**

Ref. No.	Location
D1	B-7
D2	C-6
D3	C-6
D10	B-9
D11	B-9
IC1	D-7
IC2	D-3

6-8. SCHEMATIC DIAGRAM – TUNER Section (CFD-E100 Only) –

• See page 41, 42 for IC Block Diagrams. • See page 39 for Waveform.

【TU BOARD】

CT3, L3 AM TRACKING

L3 AM FERRITE-ROD ANTENNA

D3 KV1520NT

L4 AM OSC

L4 AM CV VOLTAGE

JC24 0 L11 1µH (US, CND) (EXCEPT US, CND)

JC12 0 JC11 0 CT3 7

R41 10k C49 0.01 R40 220k

C41 220p C42 100p C43 22p C47 10p C39 0.1

C32 1000p C37 0.01

R32 100k R30 22k C80 0.01

D1 KV1471E CT1 C35 0.01 C33 0.01 (US, CND) C13 0.01 D2 KV1471E

C34 0.01 L1 FM RF L2 FM OSC R31 4.7k R33 10k C30 0.01 C31 22p R24 220

JC3 0

CT1, L1 FM TRACKING

L2 FM CV VOLTAGE

R14 1k C24 220p R11 2.2k C22 0.1 C20 0.1 C23 1 50V C21 1 50V

TP (CV)

R50 1k R91 220

R52 0 C53 0.22 R65 10k C65 4.7 50V R63 10k

C51 22p C52 10p R51 10k C54 220 10V C56 1000p

X1 75KHz C59 100p R55 10k R53 4.7k R54 470 C95 1000p C55 100p C57 1000p

TP (VT)

IC1
FM/AM RF AMP,MIX,OSC, FM/AM IF AMP,DET,MPX
IC1 TA2149BN
IC B/D

24	23	22	21	20	19	18	17	16	15	14	13
FM RF-OUT	VCC1	AM RF-IN	FM OSC	AM OSC	OSC-OUT	ST-IND	IF-OUT	DET-OUT	MPX-IN	LPF2 /MO-ST	LPF1 /BAND
5.1 (5.4)	5.1 (5.4)	5.1 (5.4)	5.1 (5.4)	5.1 (5.4)	3.6 (3.8)	3 (3.3)	2.9	1.3 (1.1)	0.7	3.9 (0.2)	3.8 (0.2)

1	2	3	4	5	6	7	8	9	10	11	12
GND1	FM RF-IN	AM LOW CUT	MIX-OUT	VCC2	AM IF-IN	FM IF-IN	GND2	AGC	QUAD	R-OUT	L-OUT
0.8 (0)	1	5 (1.1)	4.5	4.5 (5.4)	5.1 (5.4)			0 (0.1)	4.4 (4.7)	1.1	1.1

IC2
FM/AM PLL
IC2 LC72137M-TLM
IC B/D

20	19	18	17	16	15	14	13	12	11
XOUT	XIN	LP-OUT	LP-IN	PD	VSS	VDD	MO/ST	FM IN	AM IN
1.3	0.2	1.3 (1)	0.8	0.8	3 (3.3)		3.9 (0)	1.4 (0)	0 (1.6)

1	2	3	4	5	6	7	8	9	10
CE	DI	CL	DO	MUTE	MW/LW	BAND	ST-IND	BAND	IF IN
0	0	0	3.1			3.8 (0)	3 (3.3)	0	0

ANT1 FM TELESCOPIC ANTENNA

TP (ANT)

D11 1SS355 D10 1SS355

R2 470 C1 47p

JC13 0 T1 AM IFT CF4

T1 AM IF

R1 470 R5 1k JC6 0 CF2

C12 4.7 50V C9 10p C7 5p

T2 FM IFT

T2 FM IF

C15 0.01 (EXCEPT US, CND) 0.022 (US, CND)

C14 0.01 (EXCEPT US, CND) 0.022 (US, CND)

C78 4700p C77 4700p (EXCEPT US, CND)

R3 10k C10 1 50V C8 1000p C4 1000p C11 0.1 C18 220 10V

JC4 0 R92 220

C61 100p C62 100p C63 100p

R61 2.2k R60 2.2k R59 2.2k R58 2.2k

C66 100p C68 100p

C60 1000p R94 1k

R4 10k JC5 0 R13 1k R56 220 R57 100 L21 10µH

JC33 0 JC2 0 JC34 0 R10 47 JC1 0

C29 100 10V C27 100p C26 100p

TP (GND)

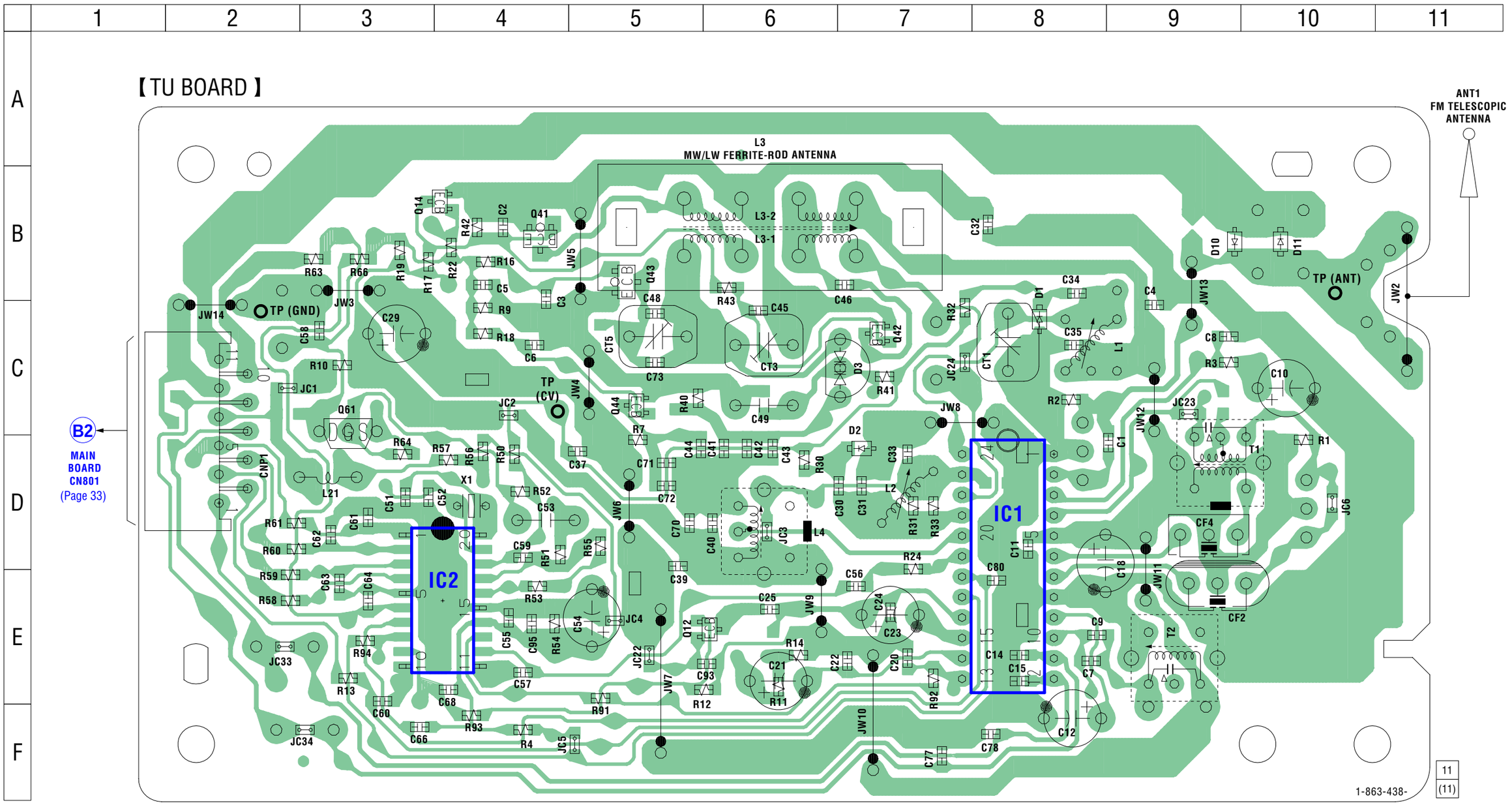
CNP1 11P

R-MUTE
R-COUNT
R-CLOCK
R-DATA
R-LAT
TU-LCH
TU-6V
TU-RCH
GND
VT
S-GND

B1 MAIN BOARD CN801 (Page 34)

6-9. PRINTED WIRING BOARD – TUNER Section (CFD-E100L Only) –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

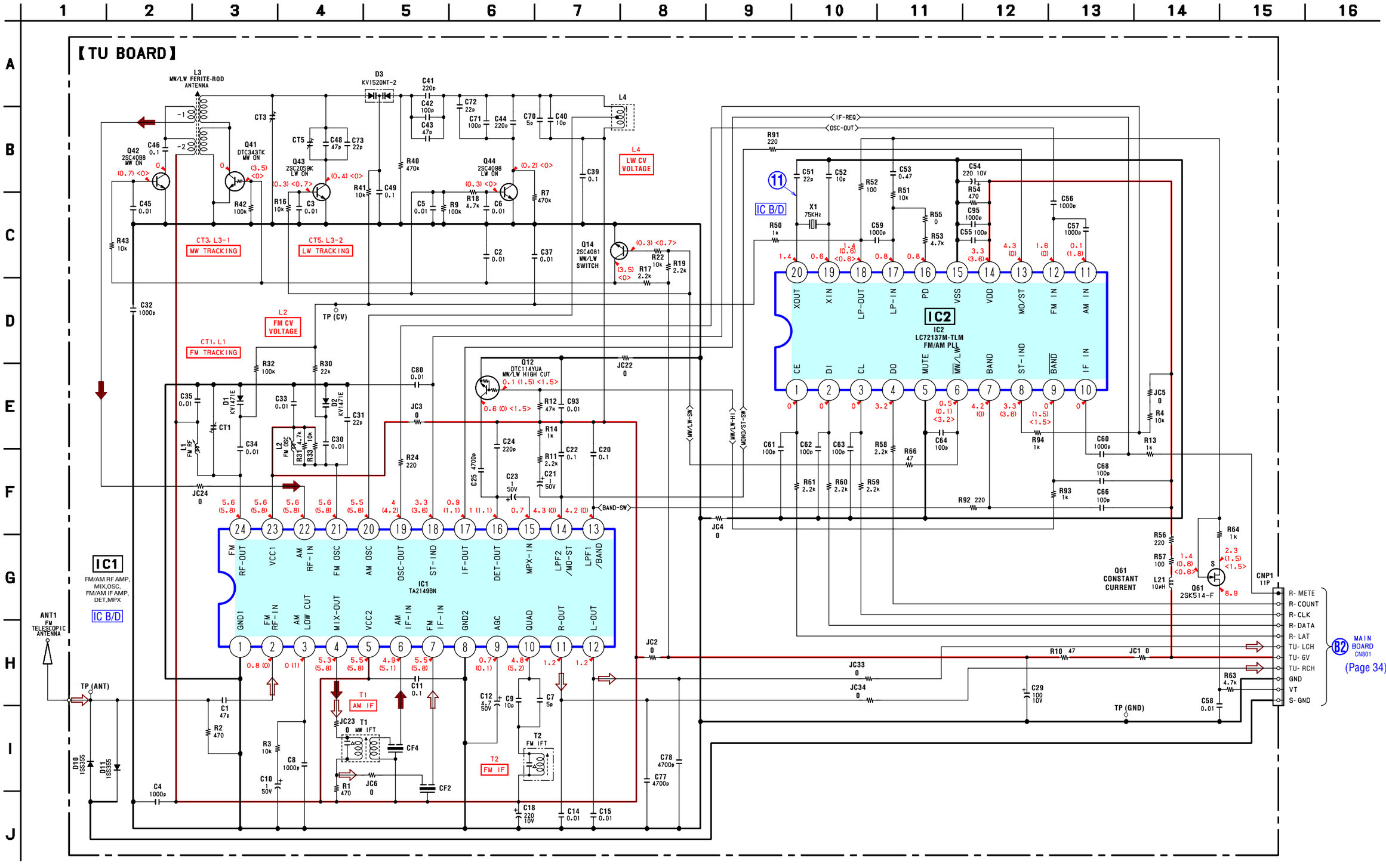


- **Semiconductor Location**

Ref. No.	Location
D1	C-8
D2	D-7
D3	C-7
D10	B-9
D11	B-10
IC1	D-8
IC2	E-4
Q12	E-6
Q14	B-4
Q41	B-4
Q42	C-7
Q43	B-5
Q44	C-5
Q61	C-3

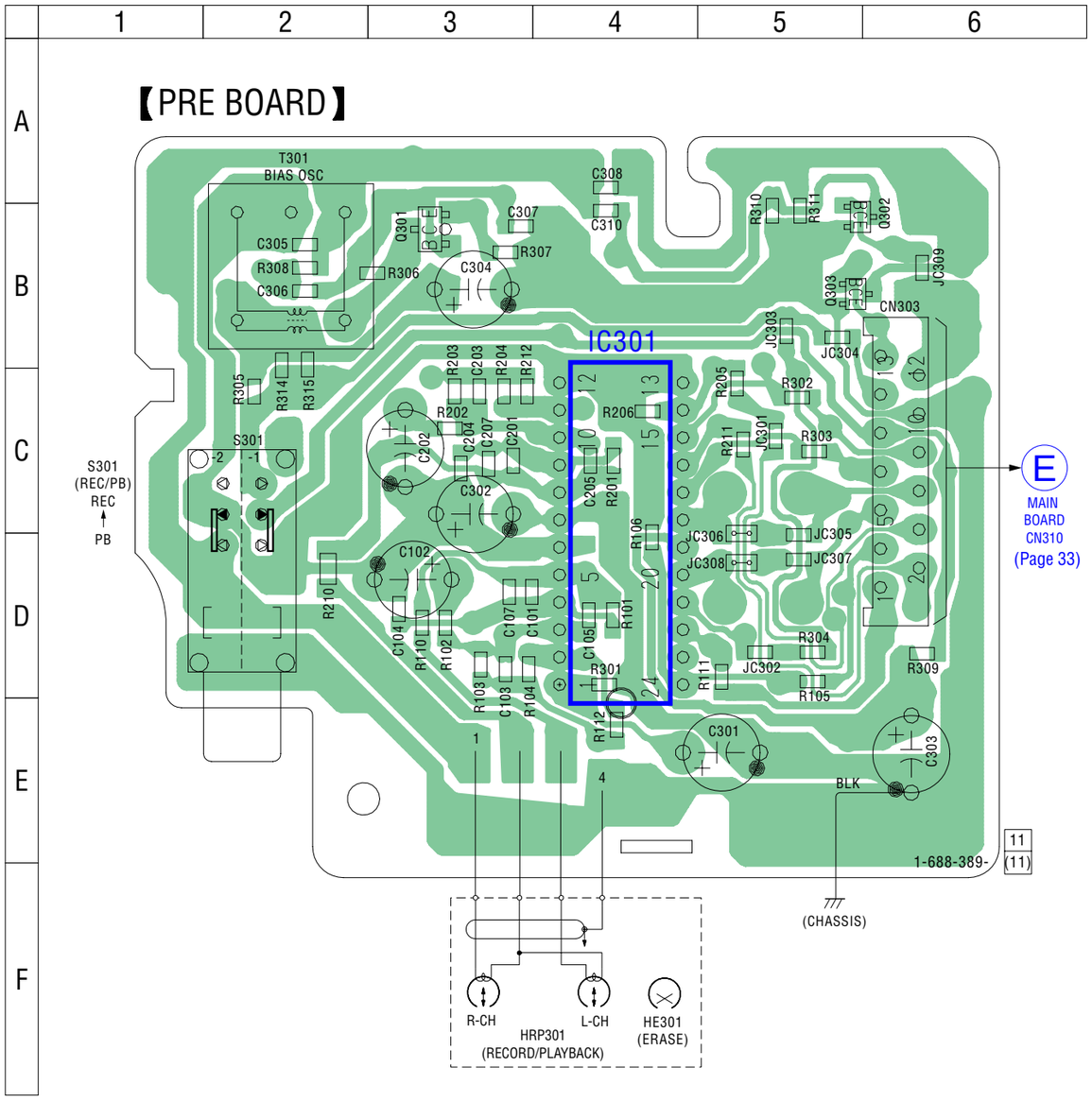
6-10. SCHEMATIC DIAGRAM – TUNER Section (CFD-E100L Only) –

• See page 41, 42 for IC Block Diagrams. • See page 39 for Waveform.



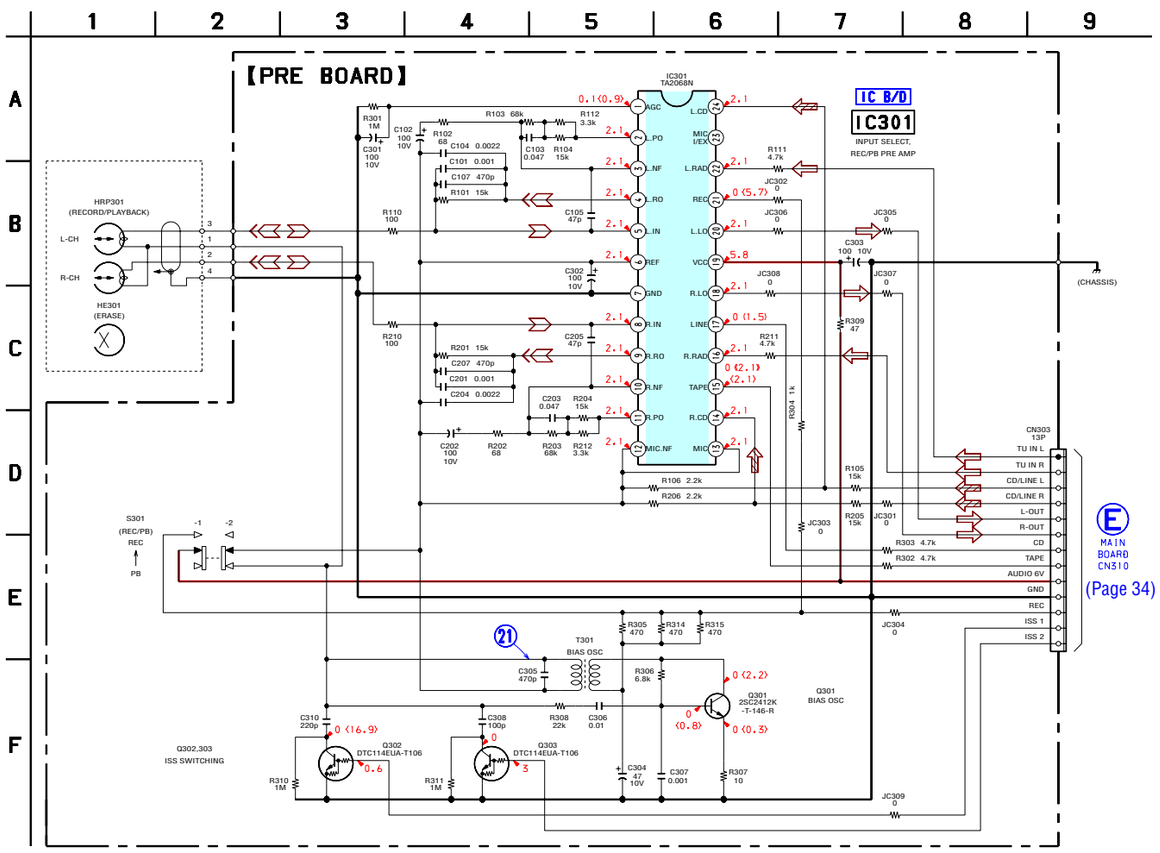
6-11. PRINTED WIRING BOARD – TAPE Section –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.



6-12. SCHEMATIC DIAGRAM – TAPE Section –

• See page 42 for IC Block Diagram. • See page 39 for Waveform.



6-13. PRINTED WIRING BOARD – MAIN Section –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

【MAIN BOARD】

(CFD-E100) B1 TU BOARD CNP1 (Page 28)

(CFD-E100L) B2 TU BOARD CNP1 (Page 30)

POWER BOARD KH352 C (Page 35)

D POWER BOARD KH352 (Page 35)

A CD BOARD CNP702 (Page 26)

E PRE BOARD CN303 (Page 32)

F LCD BOARD (Page 37)

G LCD BOARD (Page 37)

S902 (TAPE PLAY)

S903 (MOTOR ON/OFF)

M M901 (CAPSTAN/REEL)

S701 CD LID CLOSE DETECT

IC331 IC801 IC802 IC901 IC803

• Semiconductor Location

Ref. No.	Location
D331	B-4
D801	E-8
D931	B-8
D932	B-8
D933	C-9
D934	E-8
D941	F-8
D942	F-7
D951	C-6
IC331	B-3
IC801	D-5
IC802	E-3
IC803	F-2
IC901	E-3
Q131	B-7
Q231	B-6
Q801	C-6
Q802	D-8
Q803	D-8
Q804	E-7
Q905	C-8
Q906	C-8
Q907	C-9
Q908	C-8

1-866-166-

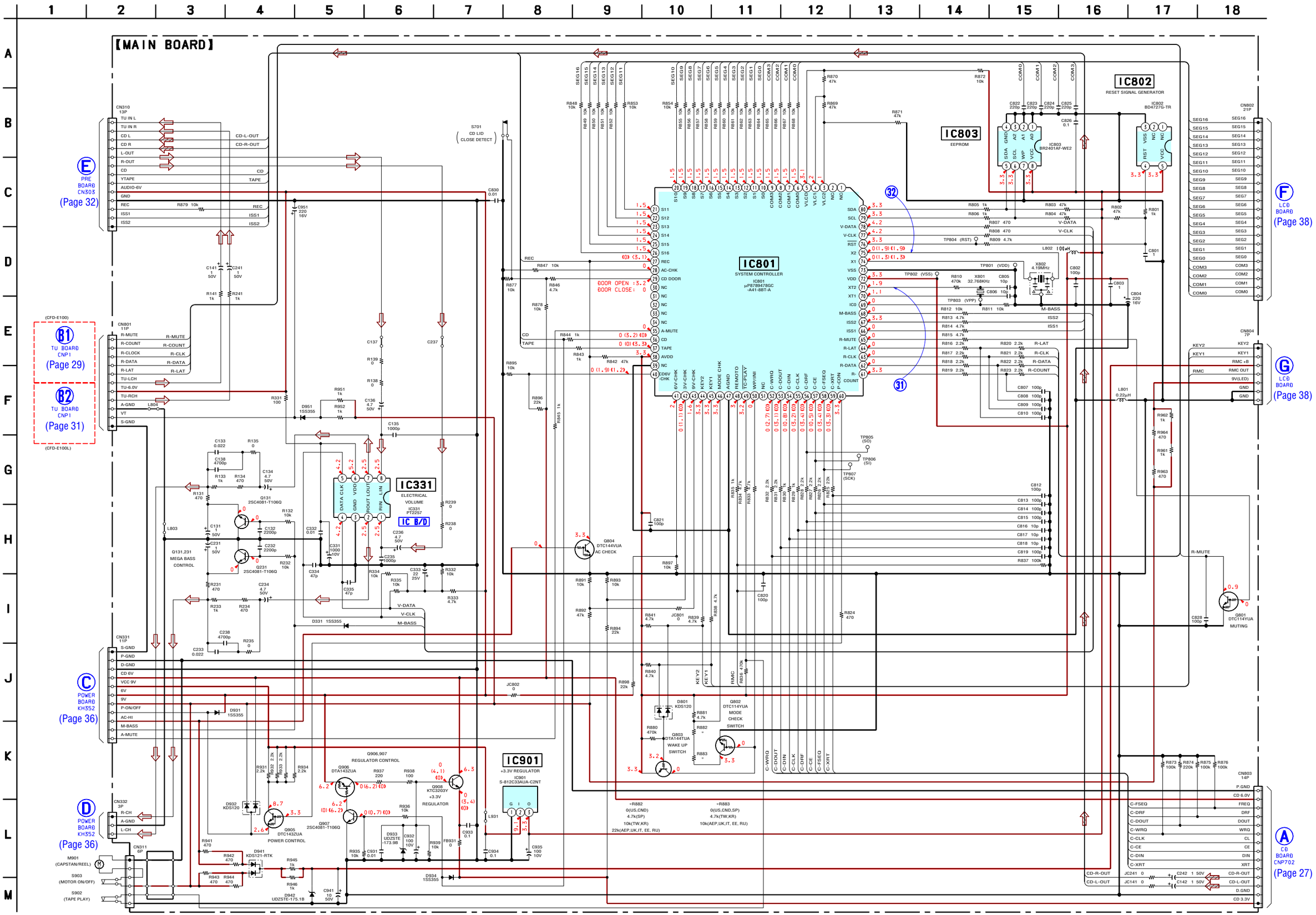
11 (11)

CFD-E100/E100L

Ver. 1.1

6-14. SCHEMATIC DIAGRAM – MAIN Section –

• See page 42 for IC Block Diagram. • See page 39 for Waveforms. • See page 43 for IC Pin Function Description.

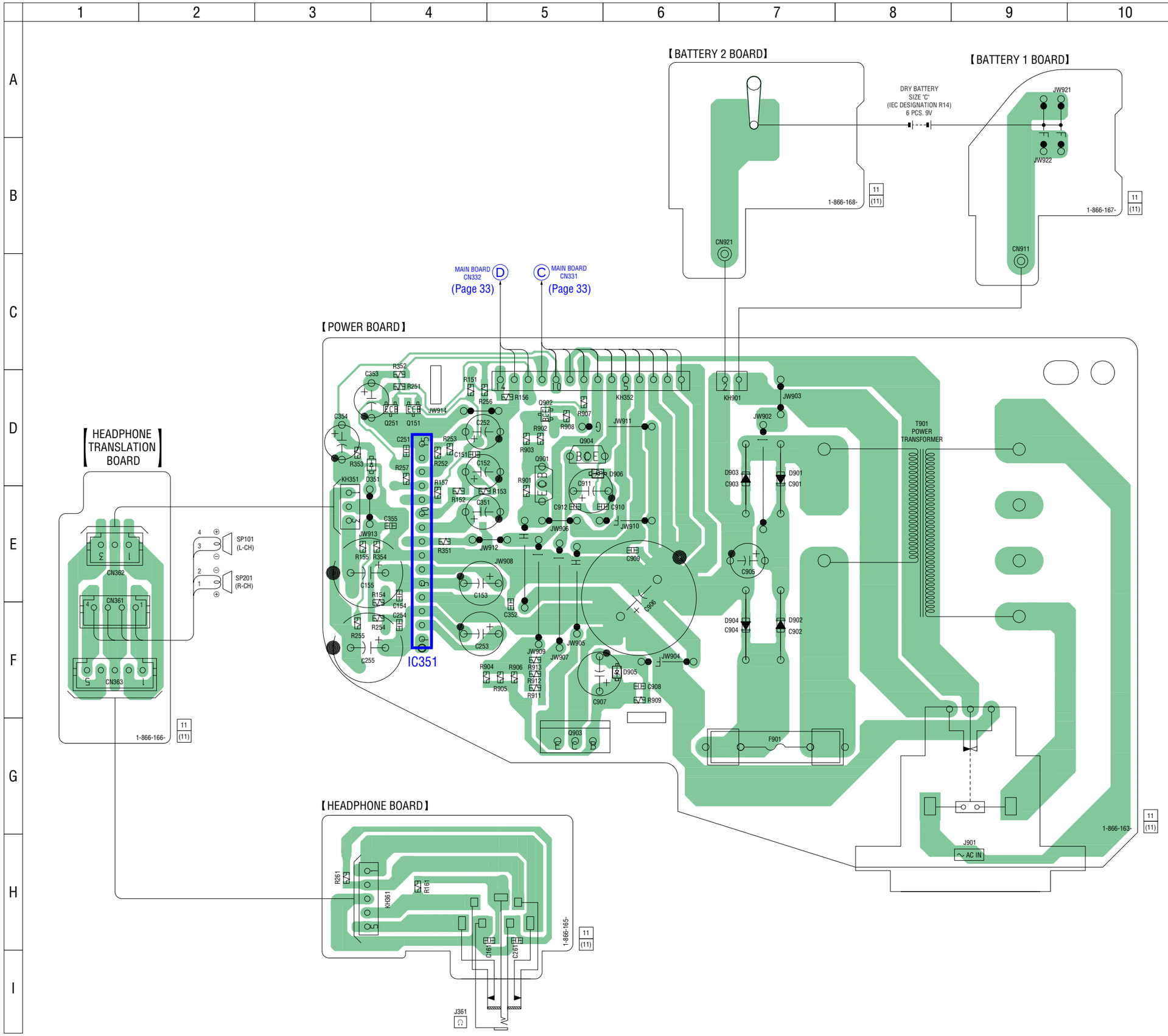


6-15. PRINTED WIRING BOARDS – POWER Section –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.

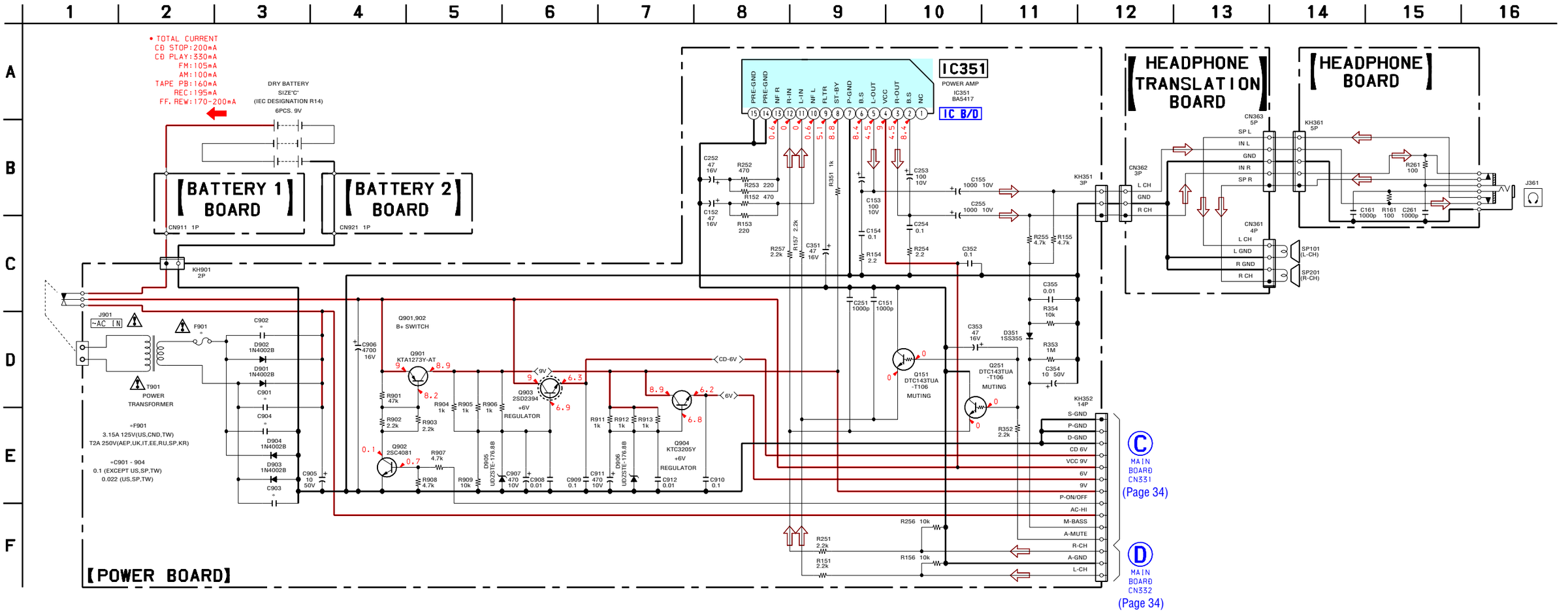
- **Semiconductor Location**

Ref. No.	Location
D351	D-4
D901	D-7
D902	F-7
D903	D-7
D904	F-7
D905	F-6
D906	D-5
IC351	E-4
Q151	D-4
Q251	D-4
Q901	D-5
Q902	D-5
Q903	G-5
Q904	D-5



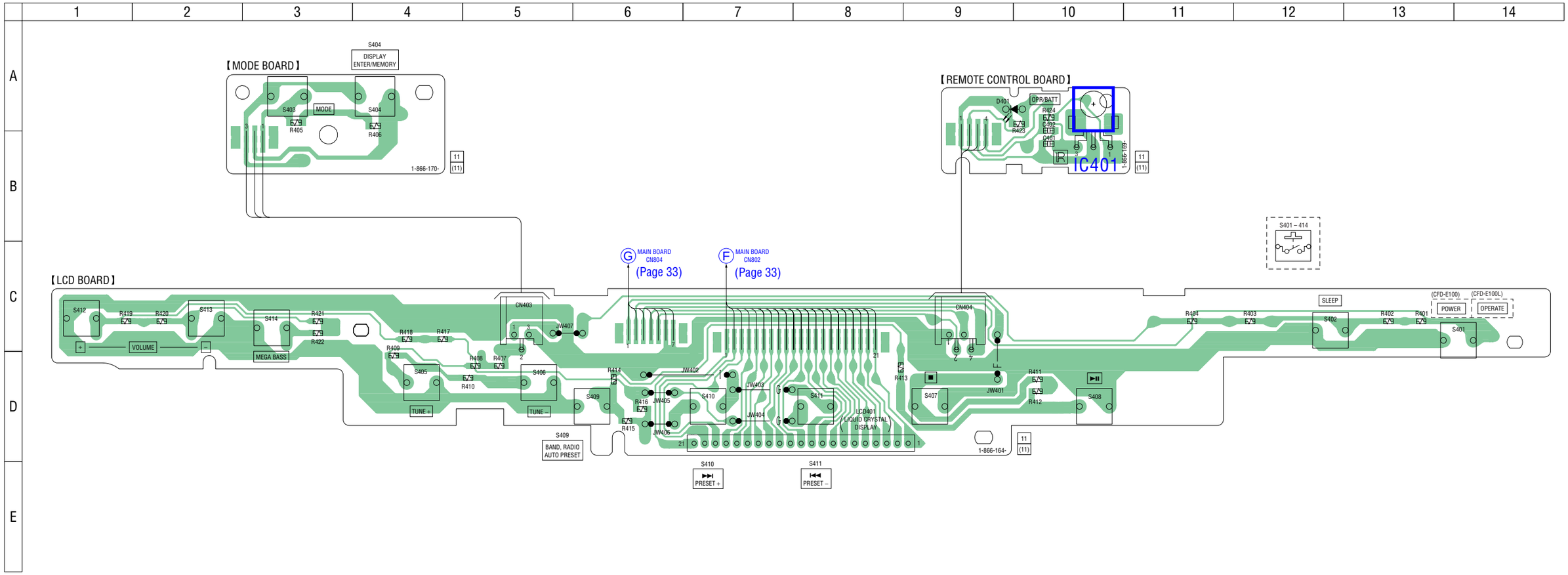
6-16. SCHEMATIC DIAGRAM – POWER Section –

• See page 42 for IC Block Diagram.

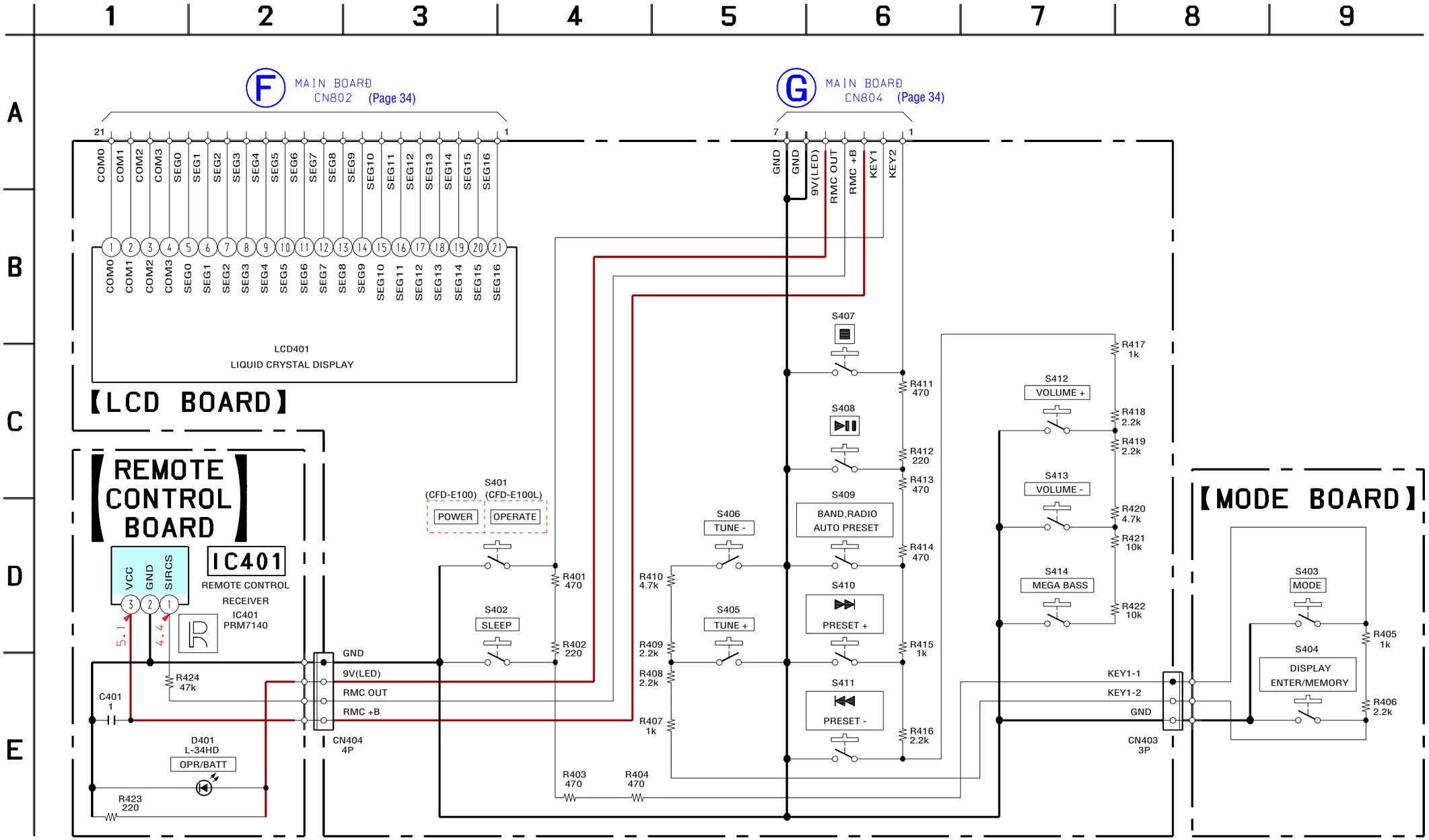


6-17. PRINTED WIRING BOARDS – LCD Section –

• See page 25 for Circuit Boards Location. :Uses unleaded solder.



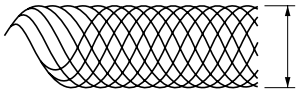
6-18. SCHEMATIC DIAGRAM – LCD Section –



• **Waveforms**

– CD Board –

① **IC701 ④ (RF)**
(CD play mode)



500 mV/DIV, 500 ns/DIV

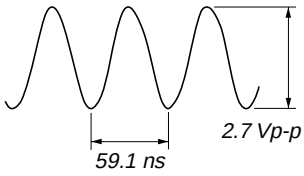
② **IC701 ⑬ (FE)**
(CD play mode)

100 mV/DIV, 500 ns/DIV

③ **IC701 ⑮ (TE)**
(CD play mode)

100 mV/DIV, 500 ns/DIV

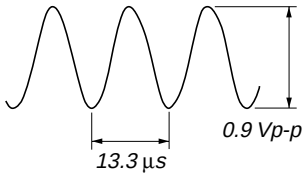
④ **IC701 ㊽ (XOUT)**



1 V/DIV, 20 ns/DIV

– TU Board –

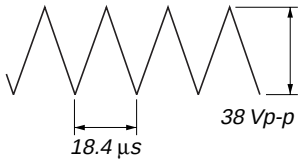
⑪ **IC2 ⑳ (XOUT)**



500 mV/DIV, 5 µs/DIV

– PRE Board –

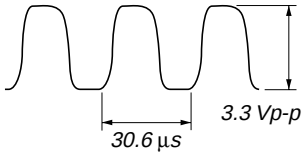
㉑ **T301 (REC mode)**



10 V/DIV, 5 µs/DIV

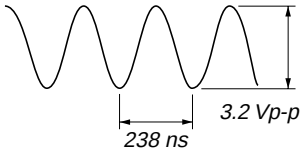
– MAIN Board –

㉛ **IC801 ⑦① (XT2)**



1 V/DIV, 10 µs/DIV

㉜ **IC801 ⑦⑤ (X2)**
(CD/tape play mode)

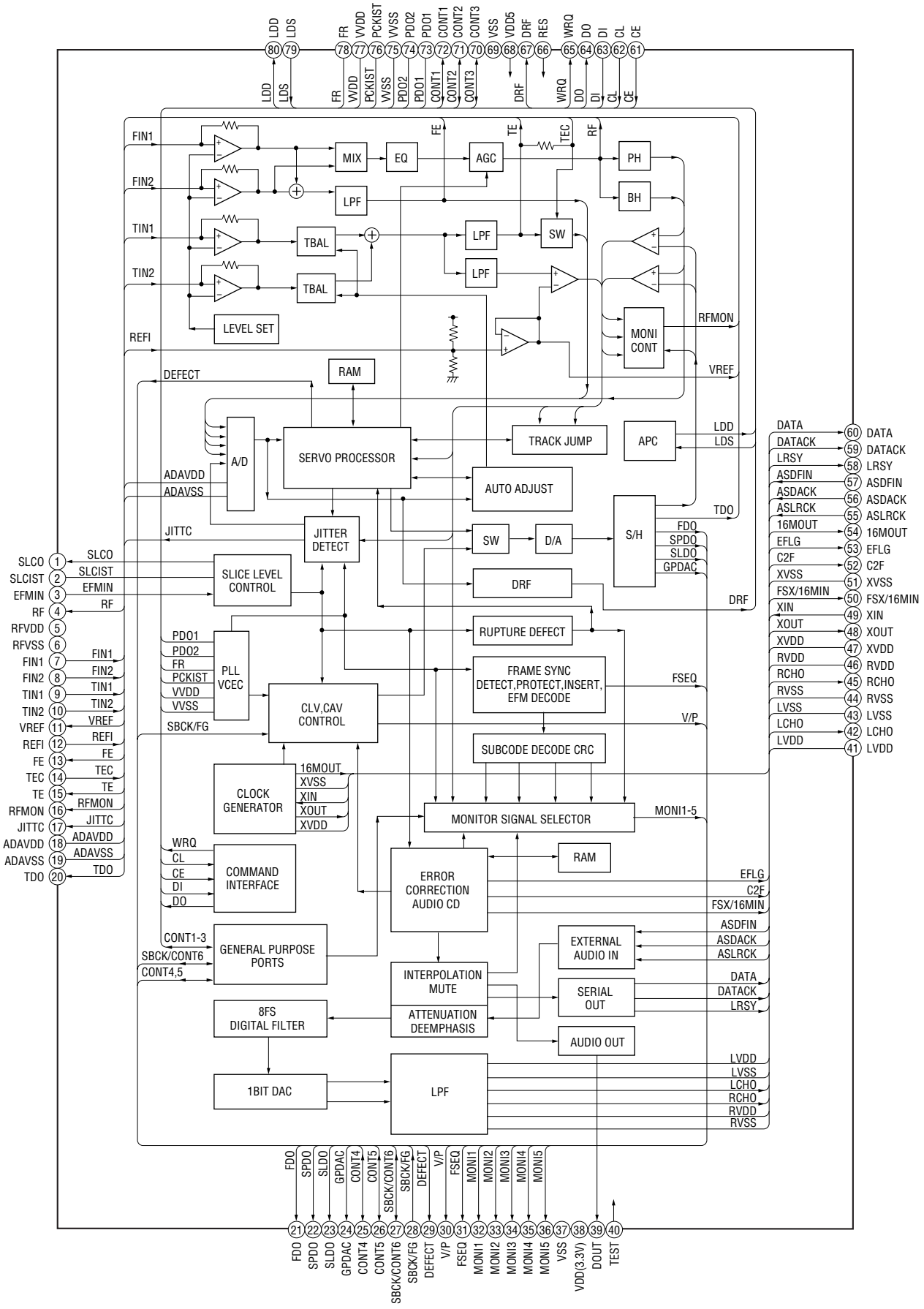


1 V/DIV, 100 ns/DIV

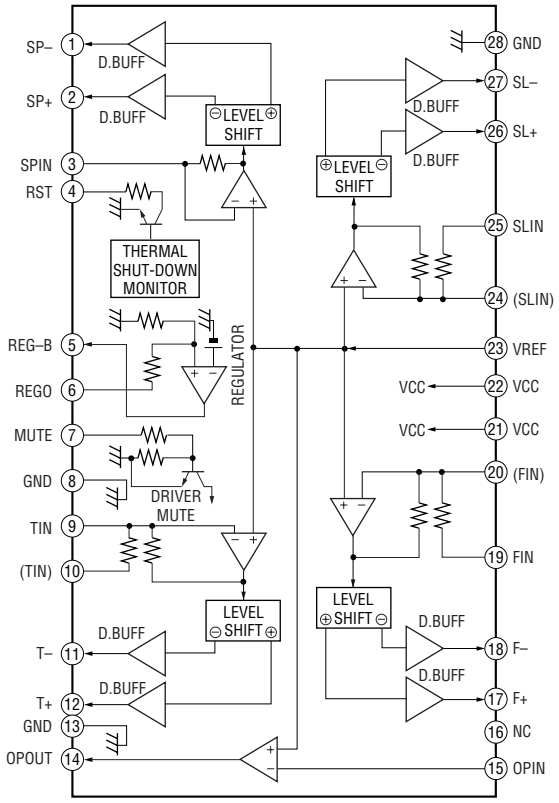
- **IC Block Diagrams**

– CD Board –

IC701 LC78646E-US-E

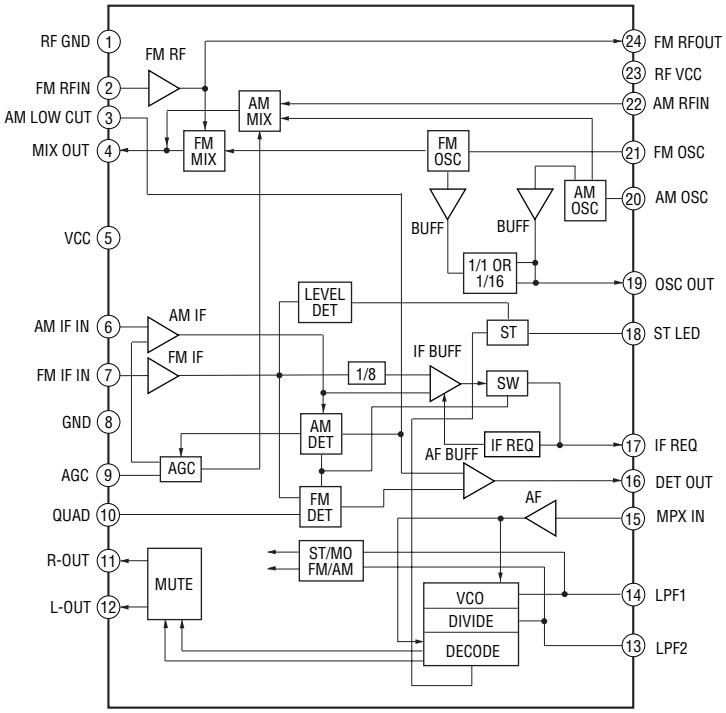


IC702 BA5826FP-E2

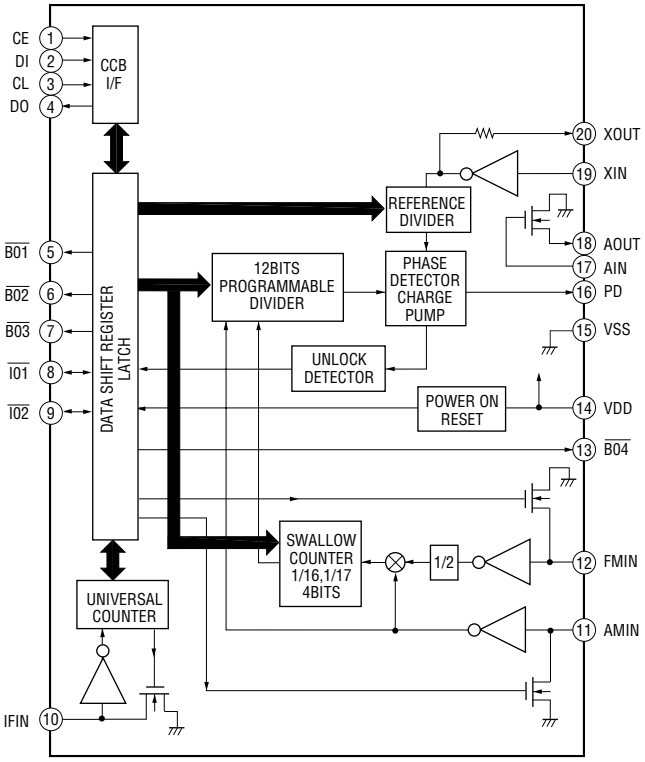


– TU Board –

IC1 TA2149BN

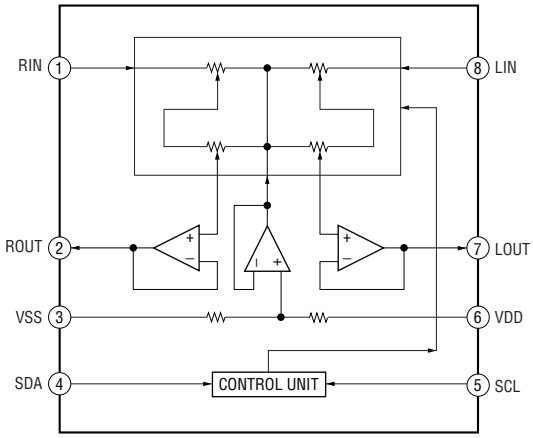


IC2 LC72137M-TLM-E



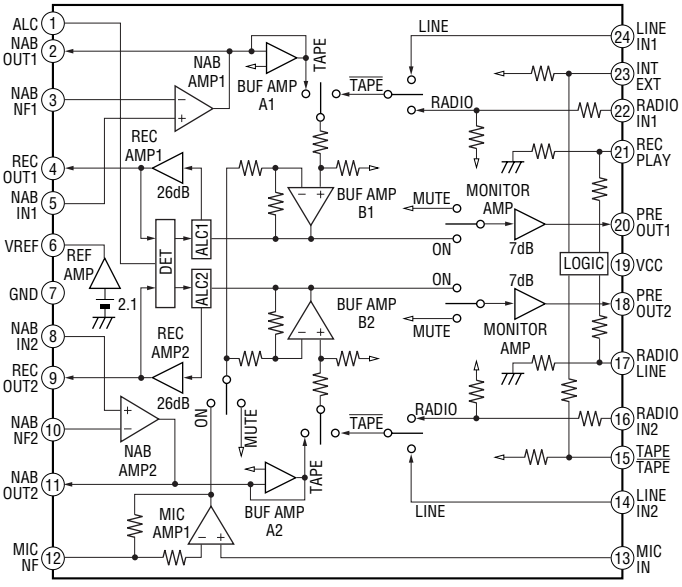
– MAIN Board –

IC331 PT2257-S



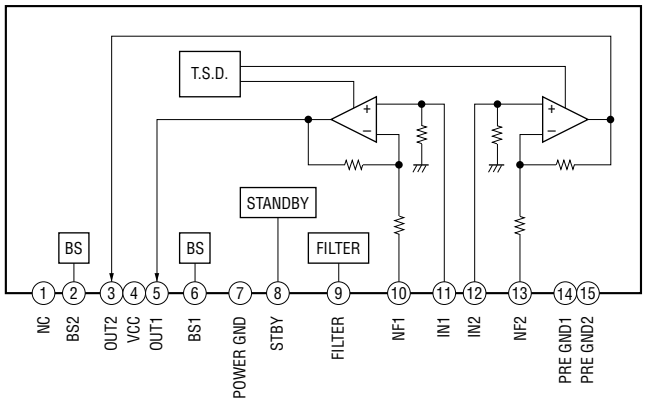
– PRE Board –

IC301 TA2068N



– POWER Board –

IC351 BA5417



- **IC Pin Function Description**

MAIN BOARD IC801 μPD789478GC-A41-8BT-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	NC	-	Not used
3 to 5	VLC2 to VLC0	-	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
6 to 9	COM0 to COM3	O	Common drive signal output to the liquid crystal display
10 to 26	S0 to S16	O	Segment drive signal output to the liquid crystal display
27	REC	I	Recording/playback detection signal input terminal "L": playback mode, "H": recording mode
28	AC-CHK	I	AC voltage detection signal input terminal "L": AC IN
29	CD DOOR	I	CD lid close detection switch input terminal "L": close
30 to 34	NC	-	Not used
35	A-MUTE	O	Audio muting on/off control signal output terminal "H": muting on
36	CD	O	CD function control signal output terminal "H": CD on
37	TAPE	O	Tape function control signal output terminal "H": tape on
38	AVDD	-	Power supply terminal (+3.3V)
39	NC	-	Not used
40	CD6V-CHK	I	Power supply voltage (+6V) for CD block monitoring terminal
41	6V-CHK	I	Power supply voltage (+6V) monitoring terminal
42	3V-CHK	I	Power supply voltage (+3V) monitoring terminal
43	9V-CHK	I	Power supply voltage (+9V) monitoring terminal
44, 45	KEY2, KEY1	I	Front panel key input terminal (A/D input)
46	MODE CHK	I	Model destination setting terminal
47	AGND	-	Ground terminal
48	REMOTE	I	Remote control signal input from the remote control receiver
49	$\overline{\text{TC-PLAY}}$	I	Tape play detection switch input terminal "L": tape play mode
50	WP/INI	I/O	Interrupt status input terminal Output terminal for wake up/Initial reset signal reading
51	NC	-	Not used
52	C-WRQ	I	Interruption detection signal input from the digital signal processor
53	C-DOUT	I	Serial data input from the digital signal processor
54	C-DIN	O	Serial data output to the digital signal processor
55	C-CLK	O	Serial data transfer clock signal output to the digital signal processor
56	C-DRF	I	Focus on/off detection signal input from the digital signal processor
57	C-CE	O	Chip enable signal output to the digital signal processor
58	C-FSEQ	I	Synchronizing signal detection signal input from the digital signal processor
59	C-XRT	O	System reset signal output to the digital signal processor "L": reset
60	P-CON	O	Power on/off control signal output terminal "L": standby mode, "H": power on
61	R-COUNT	I	PLL serial count data input from the FM/AM PLL
62	R-DATA	O	PLL serial data output to the FM/AM PLL
63	R-CLK	O	PLL serial data transfer clock signal output to the FM/AM PLL
64	R-LAT	O	PLL chip enable signal output to the FM/AM PLL
65	R-MUTE	O	Tuner muting on/off control signal output to the FM/AM PLL "H": muting on
66	ISS1	O	ISS 1 on/off control signal output terminal "H": ISS 1 on
67	ISS2	O	ISS 2 on/off control signal output terminal "H": ISS 2 on
68	M-BASS	O	MEGA BASS on/off control signal output terminal "L": MEGA BASS on
69	IC0	I	Not used
70	XT1	I	Sub system clock input terminal (32.768 kHz)

Pin No.	Pin Name	I/O	Description
71	XT2	O	Sub system clock output terminal (32.768 kHz)
72	VDD	-	Power supply terminal (+3.3V)
73	VSS	-	Ground terminal
74	X1	I	Main system clock input terminal (4.19 MHz)
75	X2	O	Main system clock output terminal (4.19 MHz)
76	$\overline{\text{RST}}$	I	System reset signal input "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
77	V-CLK	O	Serial data transfer clock signal output to the electrical volume
78	V-DATA	O	Serial data output to the electrical volume
79	SCL	O	Serial data transfer clock signal output to EEPROM
80	SDA	I/O	Two-way data bus with the EEPROM

SECTION 7
EXPLODED VIEWS

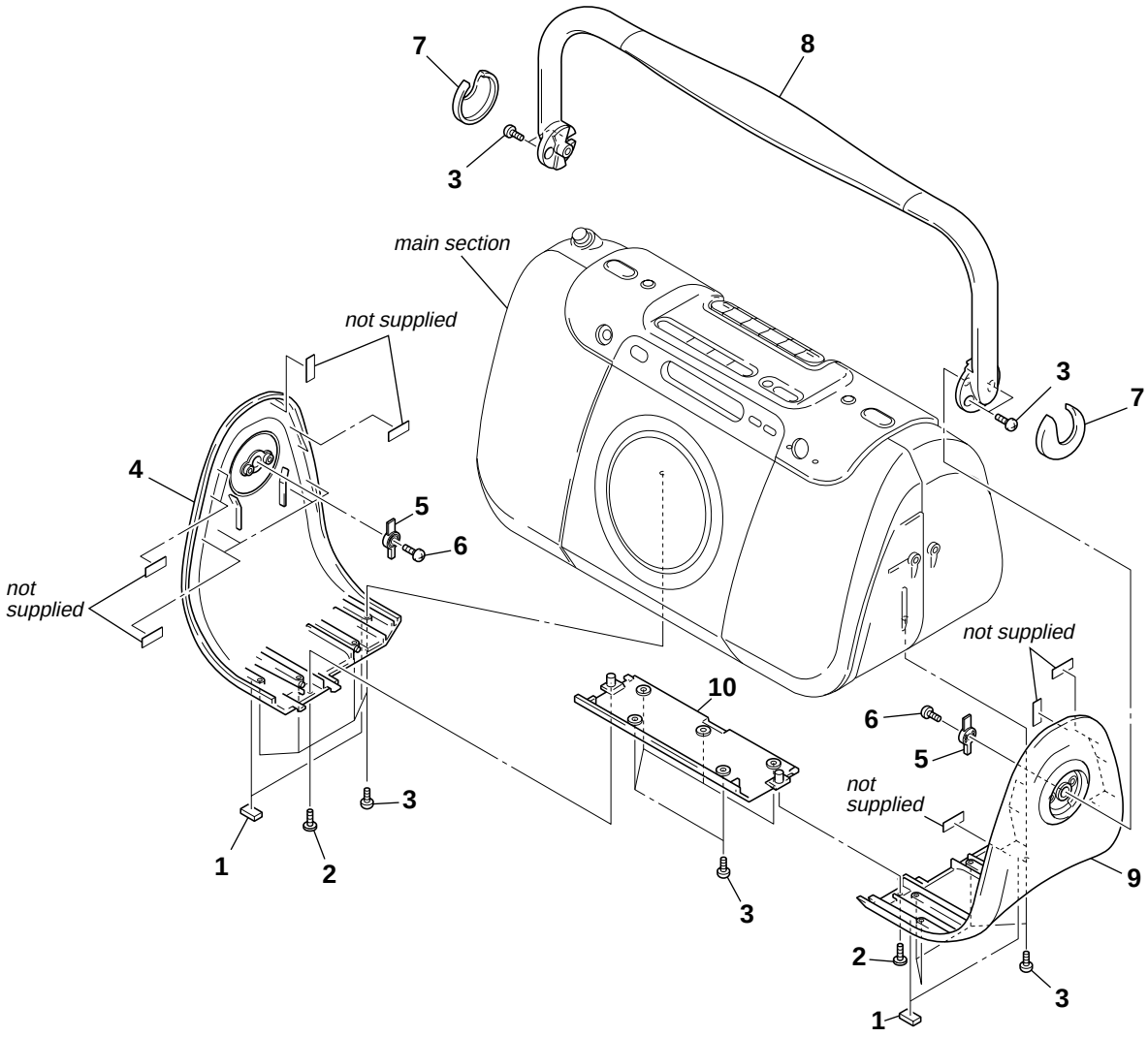
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- Please refer to "SERVICING NOTES" on page 5 about model variation.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories are given in the last of electrical parts list.
- Abbreviation
  CND : Canadian model
  EE : East European model
  IT : Italian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

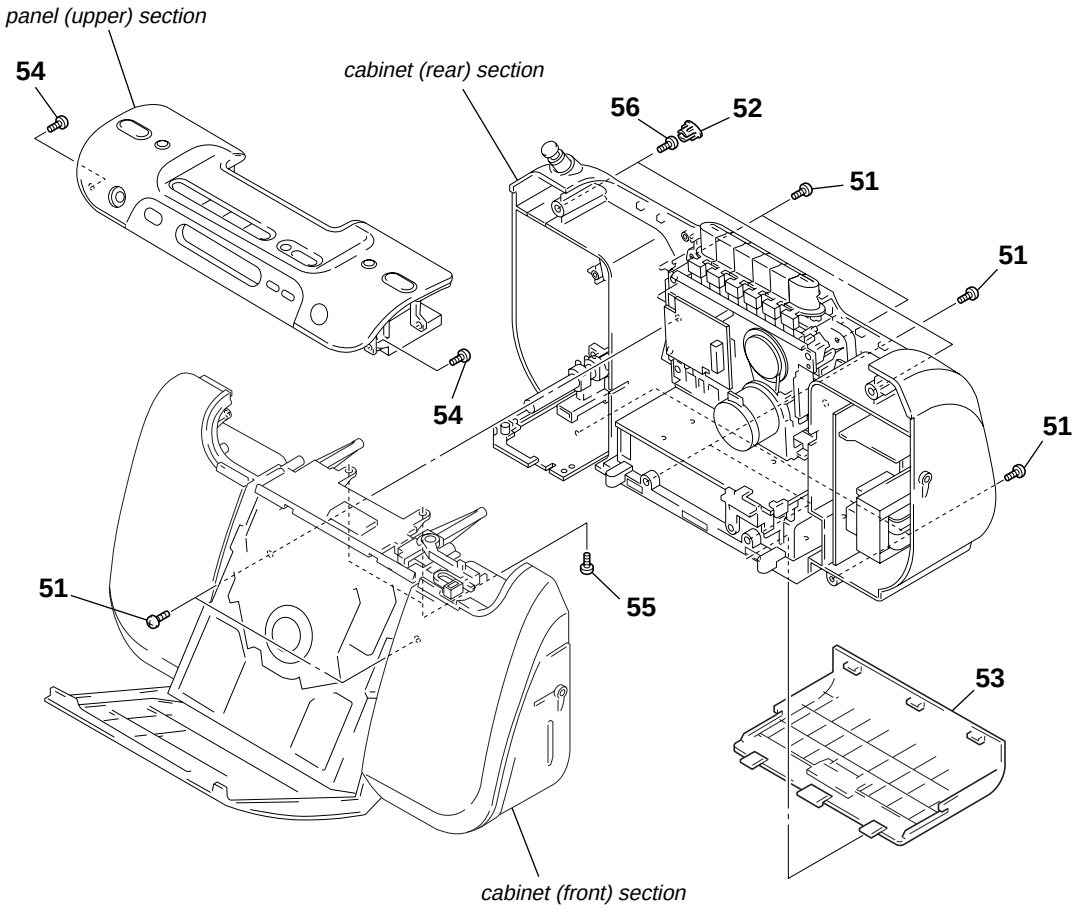
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. HANDLE SECTION



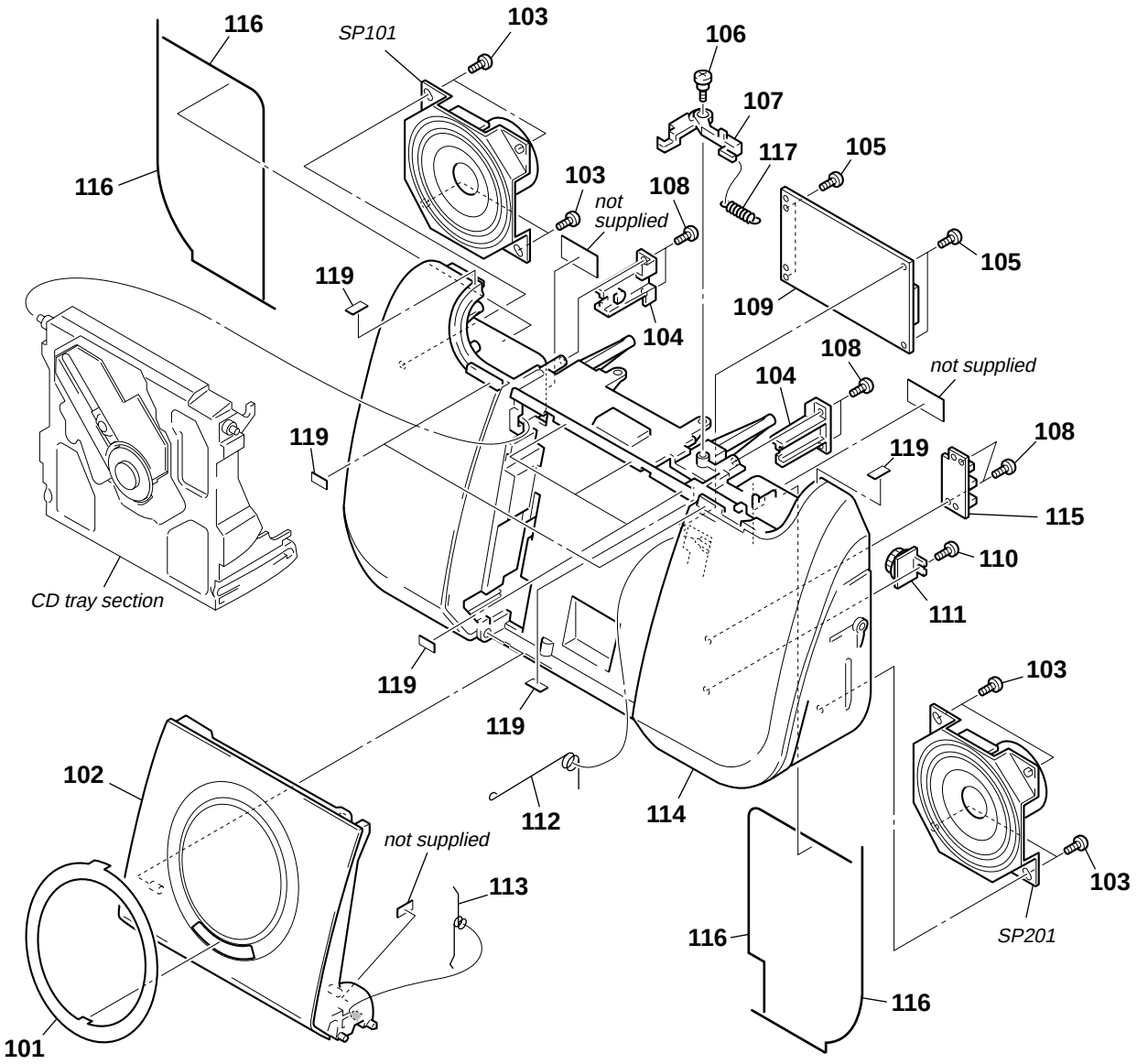
Ref. No.	Part No.	Description	Remark
1	3-040-916-01	FOOT (FRONT), RUBBER	
2	3-254-081-01	SCREW	
3	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
4	2-587-572-01	PANEL (L) (E100: US, CND)	
4	2-587-572-11	PANEL (L) (EXCEPT E100: US, CND)	
5	2-592-674-01	ARM (HANDLE)	
6	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
7	2-587-590-01	COVER (HANDLE) (EXCEPT for WHITE: LIV)	
7	2-587-590-11	COVER (HANDLE) (for WHITE: LIV)	
8	2-587-577-01	HANDLE (for SILVER, WHITE)	
8	2-587-577-11	HANDLE (for BLUE)	
9	2-587-573-01	PANEL (R) (E100: US, CND)	
9	2-587-573-11	PANEL (R) (EXCEPT E100: US, CND)	
10	2-587-571-01	PANEL (LOWER) (E100:US, CND)	
10	2-587-571-11	PANEL (LOWER) (E100L)	
10	2-587-571-21	PANEL (LOWER) (E100: SP, TW, KR)	

7-2. MAIN SECTION



Ref. No.	Part No.	Description	Remark
51	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
52	2-587-607-01	CAP (REAR) (for WHITE: ORIGINAL)	
52	2-587-607-11	CAP (REAR) (for WHITE: LIV)	
52	2-587-607-21	CAP (REAR) (for SILVER)	
52	2-587-607-31	CAP (REAR) (for BLUE)	
53	2-587-576-01	LID, BATTERY CASE (for WHITE: ORIGINAL)	
53	2-587-576-11	LID, BATTERY CASE (for WHITE: LIV)	
53	2-587-576-21	LID, BATTERY CASE (for SILVER)	
53	2-587-576-31	LID, BATTERY CASE (for BLUE)	
54	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
55	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
56	3-254-140-01	SCREW (B2.6), (+) BV TAPPING	

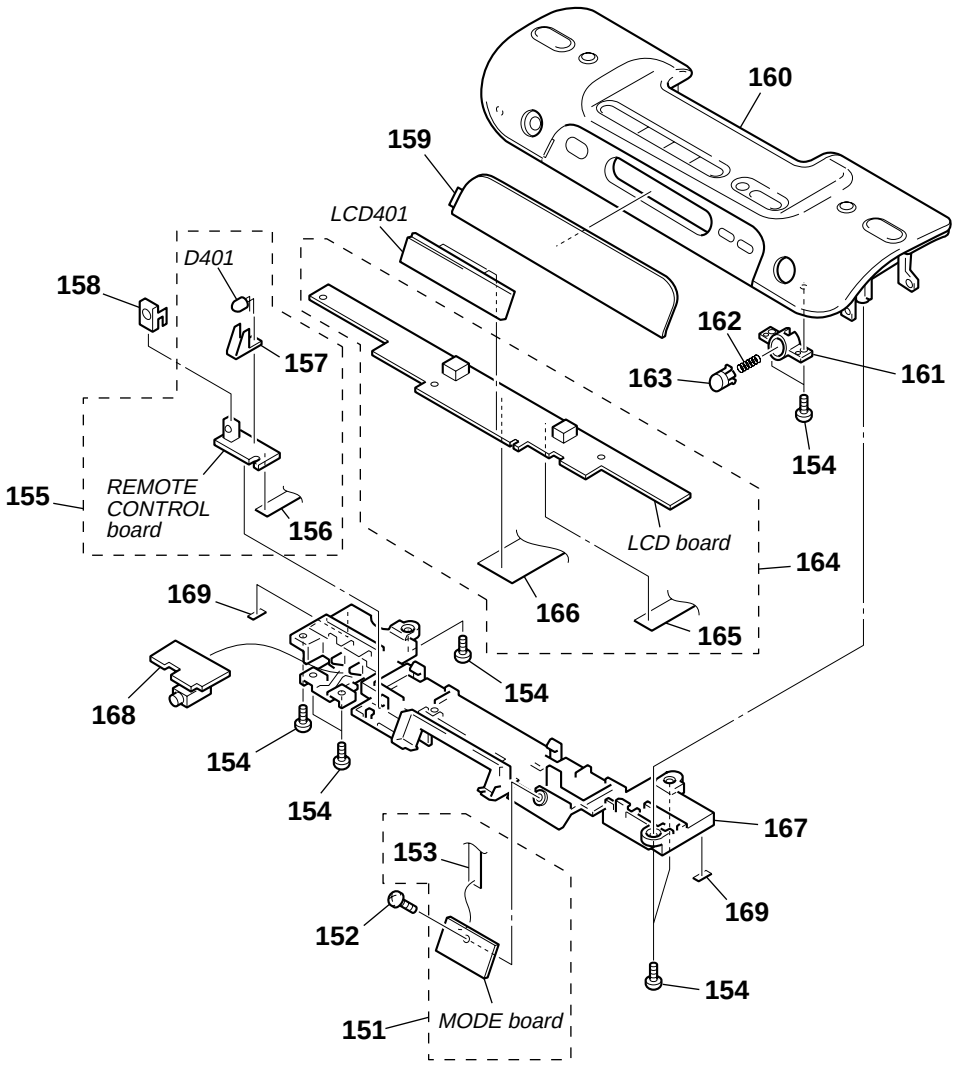
7-3. CABINET (FRONT) SECTION



Ref. No.	Part No.	Description	Remark
101	2-587-579-01	WINDOW (CD) (for WHITE: ORIGINAL)	
101	2-587-579-11	WINDOW (CD) (for WHITE: LIV)	
101	2-587-579-21	WINDOW (CD) (for SILVER)	
101	2-587-579-31	WINDOW (CD) (for BLUE)	
102	2-587-574-01	LID, CD (for WHITE: ORIGINAL)	
102	2-587-574-11	LID, CD (for WHITE: LIV)	
102	2-587-574-21	LID, CD (for SILVER) (E100: SP, TW, KR)	
102	2-587-574-31	LID, CD (for SILVER) (E100L)	
102	2-587-574-41	LID, CD (for BLUE) (E100L: AEP)	
102	2-587-574-51	LID, CD (for BLUE) (E100: SP, TW, KR)	
103	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
104	2-587-605-01	PLATE (CD SHAFT)	
105	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
* 106	4-233-649-01	SCREW, STEP	
107	2-587-604-01	LEVER (LOCK)	
108	3-254-151-01	SCREW (B2.6), (+) P TAPPING	

Ref. No.	Part No.	Description	Remark
* 109	A-4542-926-A	CD BOARD, COMPLETE	
110	3-254-142-01	SCREW (B3), (+) BV TAPPING	
111	3-047-468-21	DAMPER	
112	2-587-613-01	SPRING (CD PANEL)	
113	2-587-614-01	SPRING (CD LID)	
114	X-2055-195-1	CABINET (FRONT) SUB ASSY (for WHITE: ORIGINAL)	
114	X-2055-952-1	CABINET (FRONT) SUB ASSY (for SILVER)	
114	X-2059-391-1	CABINET (FRONT) SUB ASSY (for BLUE)	
114	X-2059-689-1	CABINET (FRONT) SUB ASSY (for WHITE: LIV)	
* 115	1-866-166-11	HEADPHONE TRANSLATION BOARD	
116	2-024-906-01	CUSHION (REAR)	
117	2-592-673-01	SPRING (LEVER LOCK)	
119	3-356-122-01	CUSHION	
SP101	1-826-150-11	SPEAKER (8cm) (L-ch)	
SP201	1-826-150-11	SPEAKER (8cm) (R-ch)	

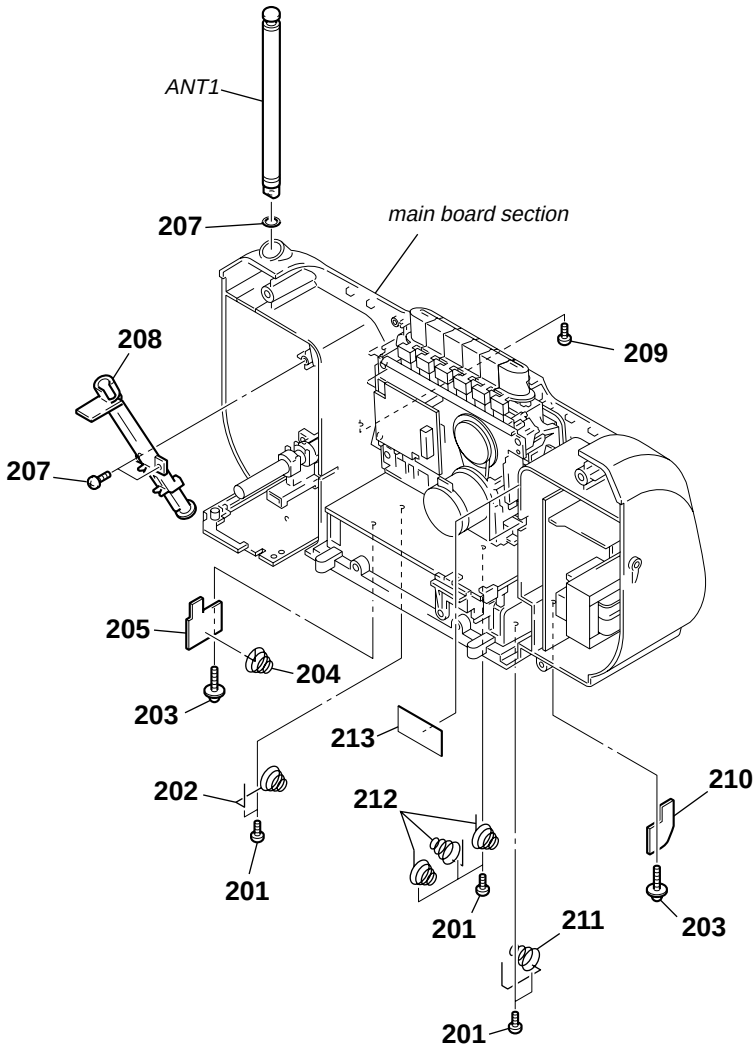
7-4. PANEL (UPPER) SECTION



Ref. No.	Part No.	Description	Remark
151	A-1109-063-A	MODE BOARD, COMPLETE	
152	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
153	1-830-508-11	CABLE, FLEXIBLE FLAT (3 CORE)	
154	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
155	A-1109-065-A	REMOTE CONTROL BOARD, COMPLETE	
156	1-830-509-11	CABLE, FLEXIBLE FLAT (4 CORE)	
157	2-587-601-01	HOLDER (LED)	
158	2-587-611-01	HOLDER (REMOTE CONTROL)	
159	2-587-578-01	WINDOW (LCD) (for WHITE: ORIGINAL)	
159	2-587-578-11	WINDOW (LCD) (for WHITE: LIV)	
159	2-587-578-21	WINDOW (LCD) (for SILVER)	
159	2-587-578-31	WINDOW (LCD) (for BLUE)	
160	X-2055-197-1	PANEL (UPPER) SUB ASSY (for WHITE: ORIGINAL)	
160	X-2055-954-1	PANEL (UPPER) SUB ASSY (for BLUE, SILVER) (E100: SP, TW, KR)	

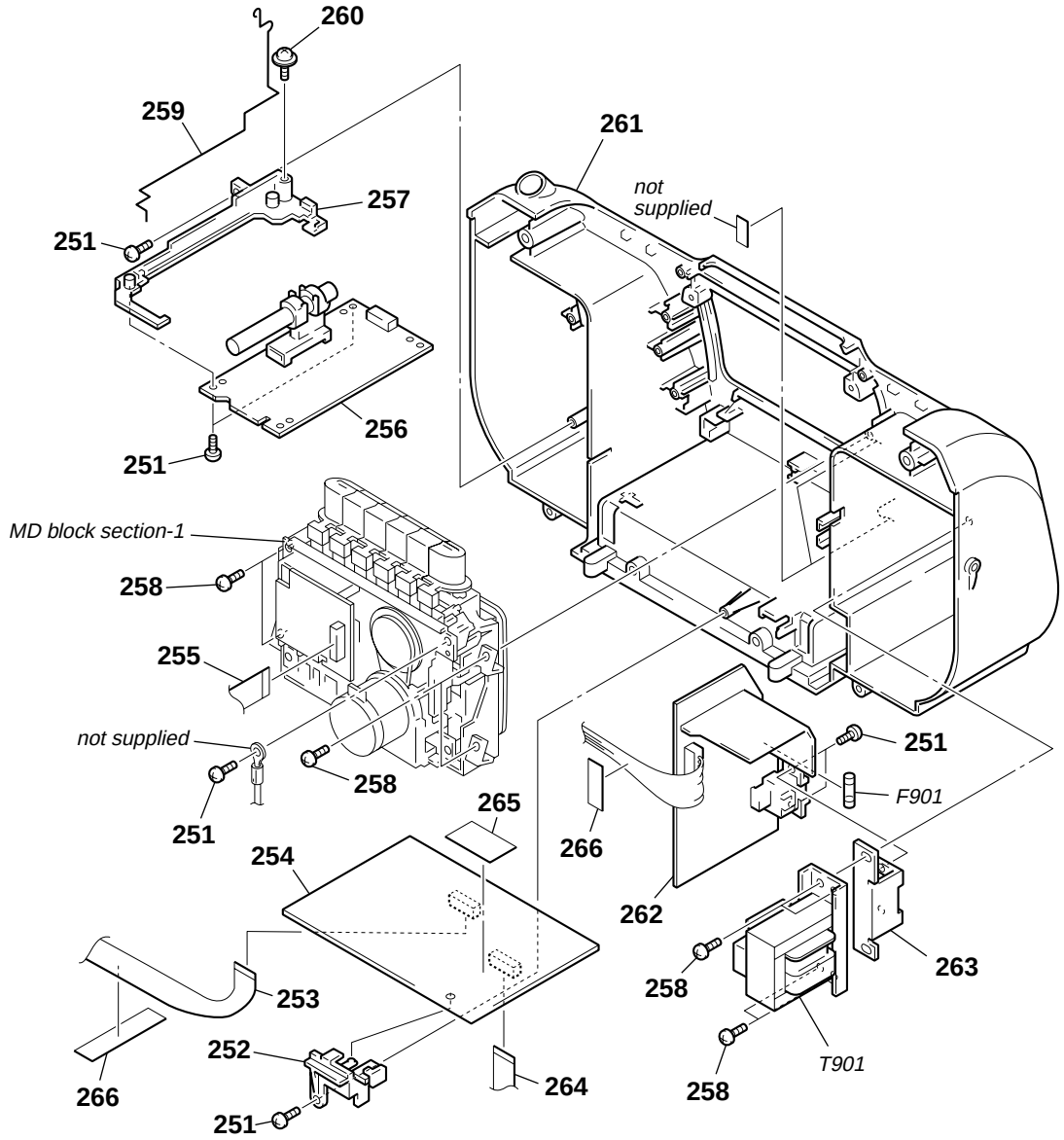
Ref. No.	Part No.	Description	Remark
160	X-2059-691-1	PANEL (UPPER) SUB ASSY (for WHITE: LIV)	
160	X-2059-694-1	PANEL (UPPER) SUB ASSY (for BLUE, SILVER)	(E100L)
161	2-587-600-01	HOLDER (LOCK)	
162	2-587-612-01	SPRING (OPEN)	
163	2-587-589-01	BUTTON (OPEN)	
164	A-1109-061-A	LCD BOARD, COMPLETE	
165	1-830-510-11	CABLE, FLEXIBLE FLAT (7 CORE)	
166	1-830-511-11	CABLE, FLEXIBLE FLAT (21 CORE)	
167	2-587-599-01	HOLDER (LCD)	
* 168	1-866-165-11	HEADPHONE BOARD	
169	3-356-122-01	CUSHION	
D401	8-719-059-97	DIODE L-34HD (OPR/BATT)	
LCD401	1-805-845-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-5. CABINET (REAR) SECTION



Ref. No.	Part No.	Description	Remark
201	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
202	2-587-619-01	TERMINAL (+/–) (B), BATTERY	
203	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
204	3-229-975-01	SPRING BATTERY (–)	
* 205	1-866-168-11	BATTERY 2 BOARD	
207	3-241-386-01	SPACER (JOG)	
208	2-587-598-01	HOLDER (ROD ANT)	
209	3-918-696-11	SCREW (M3X6 LOCK ACE)	
* 210	1-866-167-11	BATTERY 1 BOARD	
211	2-587-618-01	TERMINAL (+/–) (A), BATTERY	
212	3-252-540-01	SPRING (+. –), BATTERY	
213	4-855-637-21	CUSHION (B)	
ANT1	1-754-282-11	ANTENNA, TELESCOPIC	

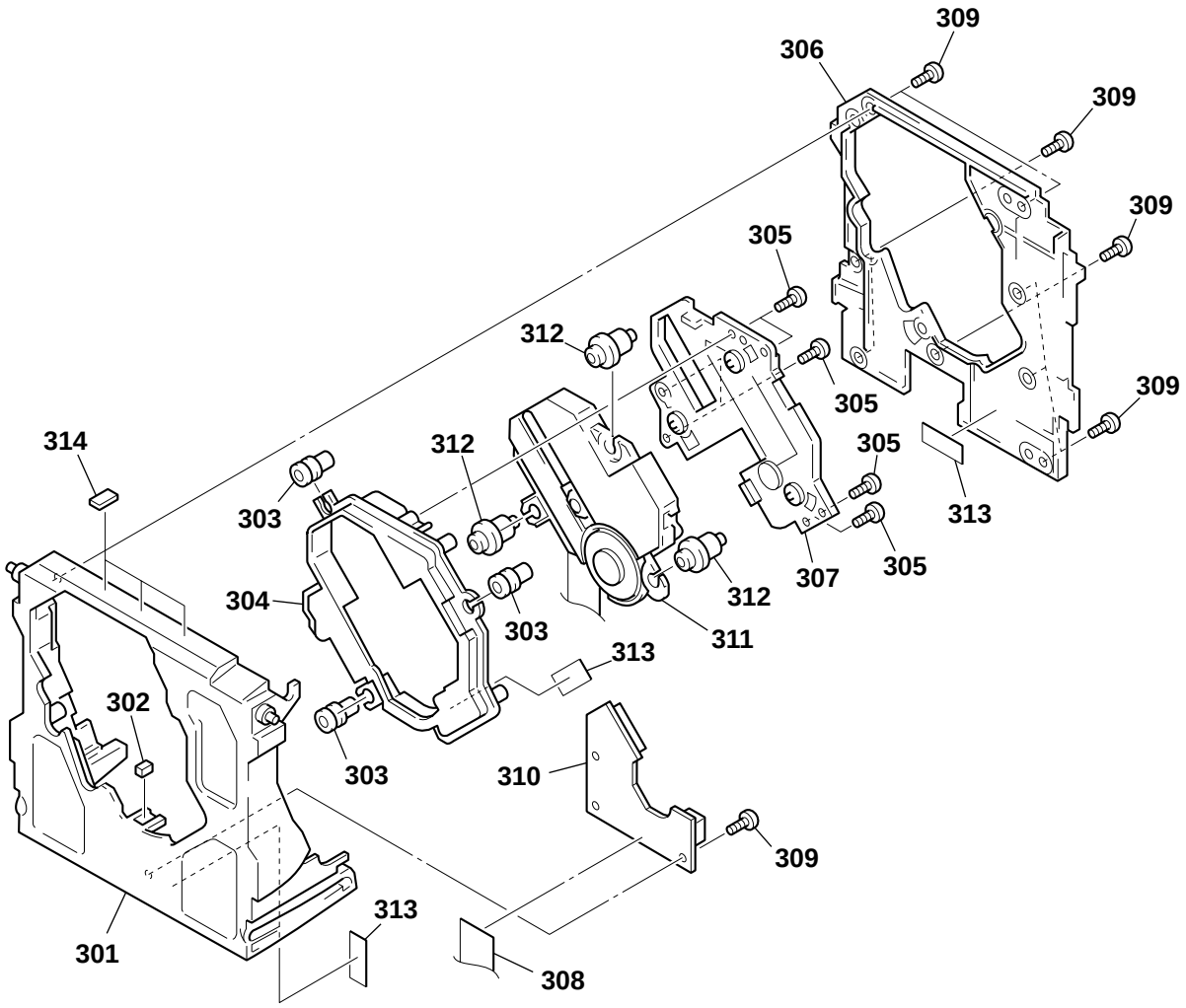
7-6. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
251	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
252	2-587-603-01	HOLDER (PWB)	
253	1-829-241-11	CABLE, FLEXIBLE FLAT (11 CORE)	
254	A-1109-052-A	MAIN BOARD, COMPLETE (US, CND)	
254	A-1119-536-A	MAIN BOARD, COMPLETE (TW, KR)	
254	A-1126-046-A	MAIN BOARD, COMPLETE (AEP, UK, IT, EE, RU)	
254	A-1126-671-A	MAIN BOARD, COMPLETE (SP)	
255	1-830-507-11	CABLE, FLEXIBLE FLAT (13 CORE)	
256	A-1070-126-A	TU BOARD, COMPLETE (SP, TW, KR)	
256	A-1109-056-A	TU BOARD, COMPLETE (US, CND)	
256	A-1126-048-A	TU BOARD, COMPLETE (E100L)	
257	2-587-602-01	HOLDER (TUNE)	
258	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
259	2-587-617-01	SPRING (TUNE), CONTACT	
260	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
261	2-587-569-01	CABINET (REAR) (for WHITE: ORIGINAL)	
261	2-587-569-11	CABINET (REAR) (for WHITE: LIV)	
261	2-587-569-21	CABINET (REAR) (for SILVER)	

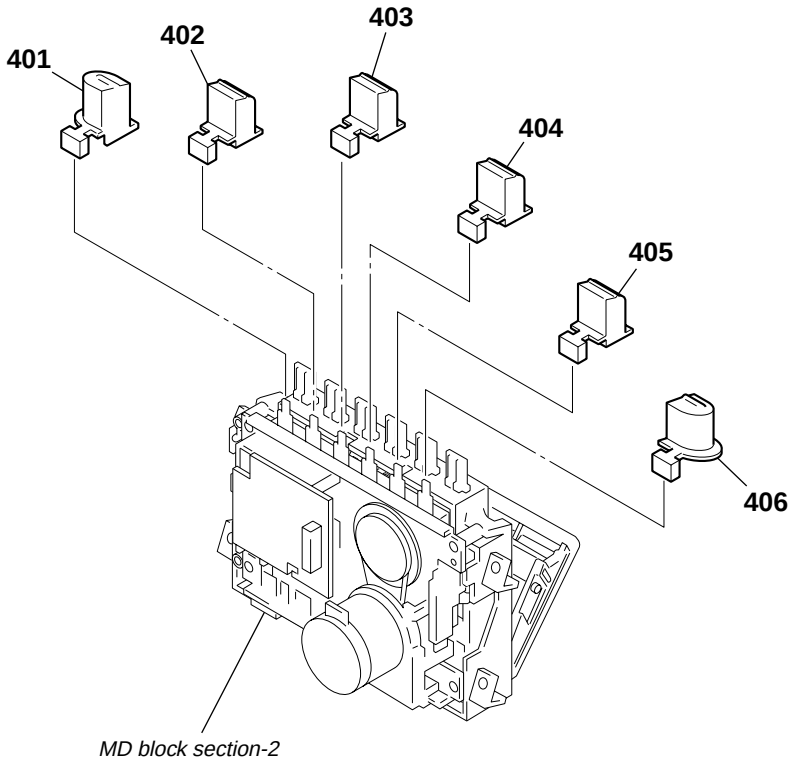
Ref. No.	Part No.	Description	Remark
261	2-587-569-31	CABINET (REAR) (for BLUE)	
262	A-1109-054-A	POWER BOARD, COMPLETE (US)	
262	A-1119-538-A	POWER BOARD, COMPLETE	(AEP, UK, IT, EE, RU, KR)
262	A-1124-796-A	POWER BOARD, COMPLETE (SP)	
262	A-1124-986-A	POWER BOARD, COMPLETE (CND)	
262	A-1126-631-A	POWER BOARD, COMPLETE (TW)	
263	2-587-620-01	HOLDER (INLET, AC)	
264	1-829-252-11	CABLE, FLEXIBLE FLAT (14 CORE)	
265	2-598-401-01	SHEET, INSULATING	
266	4-855-637-21	CUSHION (B)	
⚠F901	1-533-451-12	FUSE, GLASS TUBE (DIA. 5) (3.15A/125V)	(US, CND, TW)
⚠F901	1-533-468-12	FUSE, GLASS TUBE (DIA. 5) (T2A/250V)	(AEP, UK, IT, EE, RU, SP, KR)
⚠T901	1-435-917-21	TRANSFORMER, POWER (US, CND, TW)	
⚠T901	1-435-918-21	TRANSFORMER, POWER	(AEP, UK, IT, EE, RU, SP, KR)

7-7. CD TRAY SECTION (KSM-900AAA)



Ref. No.	Part No.	Description	Remark
301	2-587-594-01	TRAY, CD (for WHITE: ORIGINAL)	
301	2-587-594-11	TRAY, CD (for WHITE: LIV)	
301	2-587-594-21	TRAY, CD (for SILVER)	
301	2-587-594-31	TRAY, CD (for BLUE)	
302	3-265-479-01	CUSHION (OP)	
303	4-975-811-01	INSULATOR	
304	2-587-595-01	FRAME (CD)	
305	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
306	2-587-591-01	COVER (CD TRAY)	
307	2-587-593-01	COVER (FRAME CD)	
308	1-830-506-11	CABLE, FLEXIBLE FLAT (20 CORE)	
309	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
310	A-1109-048-A	CD RELAY BOARD, COMPLETE	
⚠311	8-820-138-13	OPTICAL PICK-UP (KSM-900AAA)	
312	4-975-762-11	INSULATOR	
313	2-637-461-01	CUSHION (CD)	
314	2-637-764-01	CUSHION (TRAY)	

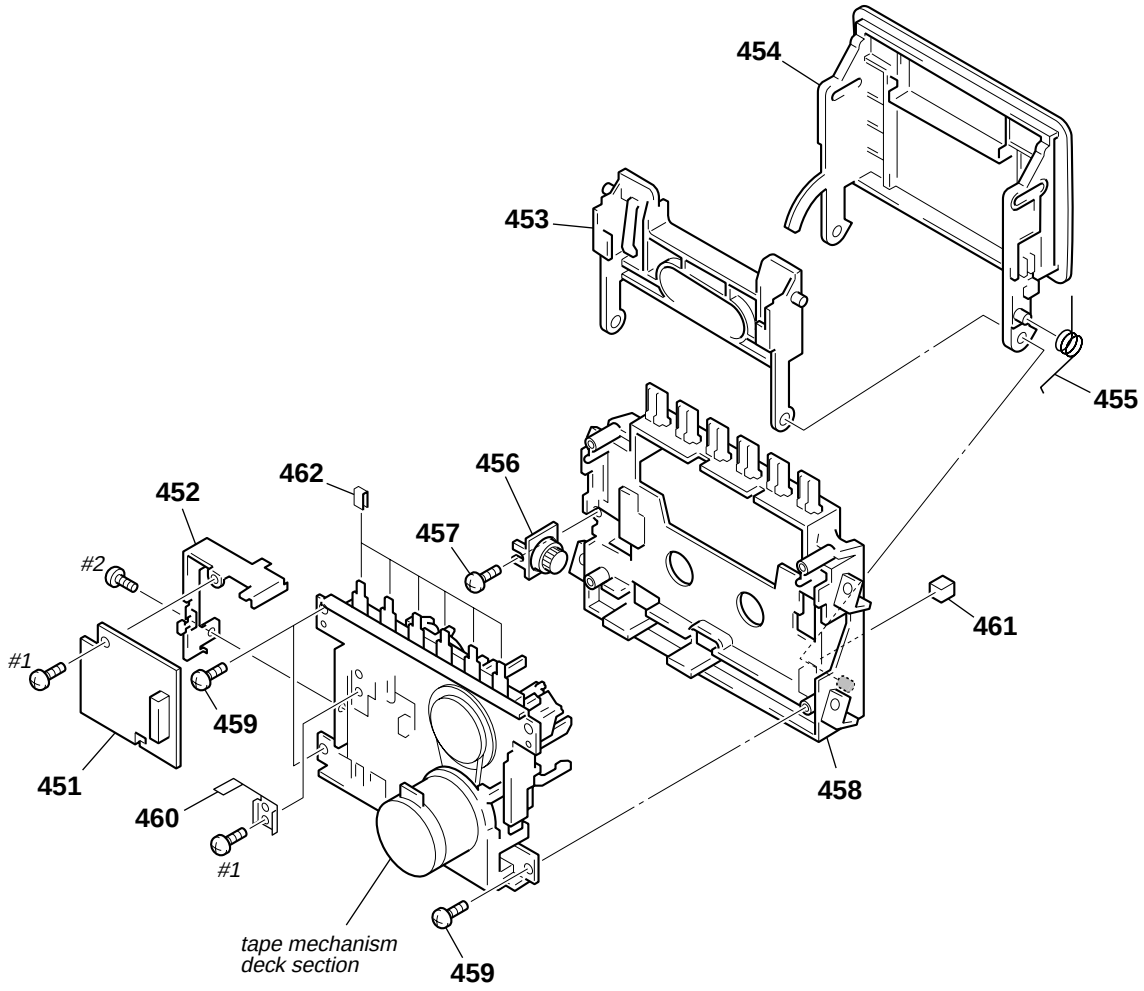
7-8. MD BLOCK SECTION-1



MD block section-2

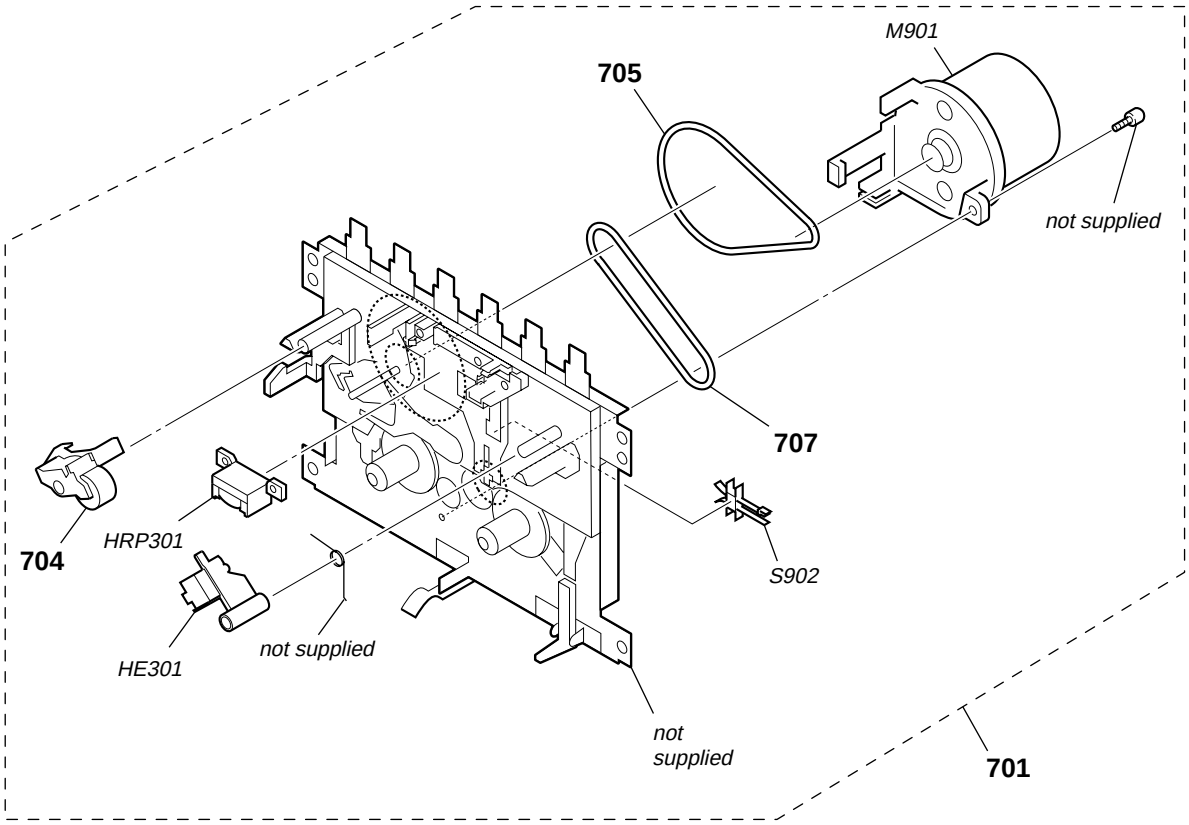
Ref. No.	Part No.	Description	Remark
401	2-587-584-01	BUTTON (MD REC) (●) (for WHITE: ORIGINAL)	
401	2-587-584-11	BUTTON (MD REC) (●) (for WHITE: LIV)	
401	2-587-584-21	BUTTON (MD REC) (●) (for SILVER, BLUE)	
402	2-587-583-01	BUTTON (MD PLAY) (►) (for WHITE: ORIGINAL)	
402	2-587-583-11	BUTTON (MD PLAY) (►) (for WHITE: LIV)	
402	2-587-583-21	BUTTON (MD PLAY) (►) (for SILVER, BLUE)	
403	2-587-585-01	BUTTON (MD RWD) (◄◄) (for WHITE: ORIGINAL)	
403	2-587-585-11	BUTTON (MD RWD) (◄◄) (for WHITE: LIV)	
403	2-587-585-21	BUTTON (MD RWD) (◄◄) (for SILVER, BLUE)	
404	2-587-581-01	BUTTON (MD FWD) (►►) (for WHITE: ORIGINAL)	
404	2-587-581-11	BUTTON (MD FWD) (►►) (for WHITE: LIV)	
404	2-587-581-21	BUTTON (MD FWD) (►►) (for SILVER, BLUE)	
405	2-587-586-01	BUTTON (MD STOP) (■⏏) (for WHITE: ORIGINAL)	
405	2-587-586-11	BUTTON (MD STOP) (■⏏) (for WHITE: LIV)	
405	2-587-586-21	BUTTON (MD STOP) (■⏏) (for SILVER, BLUE)	
406	2-587-582-01	BUTTON (MD PAUSE) (❚❚) (for WHITE: ORIGINAL)	
406	2-587-582-11	BUTTON (MD PAUSE) (❚❚) (for WHITE: LIV)	
406	2-587-582-21	BUTTON (MD PAUSE) (❚❚) (for SILVER, BLUE)	

7-9. MD BLOCK SECTION-2



Ref. No.	Part No.	Description	Remark
451	A-3683-864-A	PRE BOARD, COMPLETE	
452	3-252-614-01	CHASSIS, TC	
453	2-587-597-01	HOLDER (CASSETTE)	
454	X-2055-196-1	LID SUB ASSY, CASSETTE (for WHITE: ORIGINAL)	
454	X-2055-953-1	LID SUB ASSY, CASSETTE (for SILVER)	
454	X-2059-392-1	LID SUB ASSY, CASSETTE (for BLUE)	
454	X-2059-690-1	LID SUB ASSY, CASSETTE (for WHITE: LIV)	
455	2-587-616-01	SPRING (CASSETTE)	
456	3-047-468-01	DAMPER	
457	3-254-142-01	SCREW (B3), (+) BV TAPPING	
458	2-587-596-01	HOLDER (MD) (for WHITE: ORIGINAL)	
458	2-587-596-11	HOLDER (MD) (for WHITE: LIV)	
458	2-587-596-21	HOLDER (MD) (for SILVER)	
458	2-587-596-31	HOLDER (MD) (for BLUE)	
459	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
460	3-252-612-01	LEVER, REC	
461	3-246-344-11	FOOT, RUBBER	
462	3-356-122-01	CUSHION	
#1	7-685-851-04	SCREW +BVTT 2X4 (S)	
#2	7-685-850-09	SCREW +BVTT 2X3 (S)	

7-10. TAPE MECHANISM DECK SECTION (MF-E100)



Ref. No.	Part No.	Description	Remark
701	A-1119-419-A	MECHANISM DECK ASSY (MF-E100)	
704	3-933-825-01	ARM ASSY, PINCH ROLLER	
705	3-266-054-01	BELT, MAIN	
707	3-933-833-01	BELT, RF	
HE301	1-500-813-11	HEAD, ERASE	

Ref. No.	Part No.	Description	Remark
HRP301	3-266-053-01	HEAD, RP (RECORD/PLAYBACK)	
M901	X-3385-048-1	MOTOR SUB ASSY (CAPSTAN/REEL)	
S902	1-762-819-11	SWITCH, LEAF (TAPE PLAY)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. ., uPA. . : µPA. .,
  uPB. . : µPB. ., uPC. . : µPC. .,
  uPD. . : µPD. .
- Abbreviation
  CND : Canadian model
  EE : East European model
  IT : Italian model
  KR : Korean model
  RU : Russian model
  SP : Singapore model
  TW : Taiwan model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	1-866-167-11	BATTERY 1 BOARD			
		**********			
**********					
*	1-866-168-11	BATTERY 2 BOARD			
		**********			
	3-229-975-01	SPRING BATTERY (–)			
**********					
*	A-4542-926-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-126-947-11	ELECT	47uF	20%	35V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C705	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C706	1-126-960-11	ELECT	1uF	20%	50V
C707	1-115-156-11	CERAMIC CHIP	1uF		10V
C708	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C716	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C717	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C720	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C721	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C722	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C723	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C724	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C726	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C727	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C728	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C729	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C730	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C733	1-104-665-11	ELECT	100uF	20%	25V
C734	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C735	1-126-916-11	ELECT	1000uF	20%	6.3V
C736	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C740	1-126-935-11	ELECT	470uF	20%	16V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C744	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C745	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C746	1-104-665-11	ELECT	100uF	20%	25V
C751	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C754	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C755	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CNP701	1-784-781-11	CONNECTOR, FFC 20P			
* CNP702	1-784-736-11	CONNECTOR, FFC 14P			
		< JUMPER RESISTOR >			
FB701	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC701	6-701-796-01	IC LC78646E-US-E			
IC702	6-701-787-11	IC BA5826FP-E2			
		< JUMPER RESISTOR >			
JC703	1-216-864-11	SHORT CHIP	0		
JC704	1-216-864-11	SHORT CHIP	0		
JC705	1-216-864-11	SHORT CHIP	0		
JC706	1-216-864-11	SHORT CHIP	0		
JC707	1-216-864-11	SHORT CHIP	0		
JC708	1-216-864-11	SHORT CHIP	0		
JC709	1-216-864-11	SHORT CHIP	0		
JC710	1-216-864-11	SHORT CHIP	0		
JC711	1-216-864-11	SHORT CHIP	0		
L706	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q701	8-729-054-57	TRANSISTOR	KTN2907AS-RTK		
		< RESISTOR >			
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R703	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R707	1-216-797-11	METAL CHIP	10	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-837-11	METAL CHIP	22K	5%	1/10W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R711	1-216-813-11	METAL CHIP	220	5%	1/10W

CD | **CD RELAY** | **HEADPHONE** | **HEADPHONE TRANSLATION** | **LCD**

Ref. No.	Part No.	Description			Remark
R712	1-216-809-11	METAL CHIP	100	5%	1/10W
R713	1-216-809-11	METAL CHIP	100	5%	1/10W
R714	1-216-853-11	METAL CHIP	470K	5%	1/10W
R715	1-216-849-11	METAL CHIP	220K	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R718	1-216-821-11	METAL CHIP	1K	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W
R722	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-216-841-11	METAL CHIP	47K	5%	1/10W
R725	1-216-817-11	METAL CHIP	470	5%	1/10W
R726	1-216-817-11	METAL CHIP	470	5%	1/10W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W
R729	1-216-813-11	METAL CHIP	220	5%	1/10W
R730	1-216-821-11	METAL CHIP	1K	5%	1/10W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R732	1-216-813-11	METAL CHIP	220	5%	1/10W
R733	1-216-813-11	METAL CHIP	220	5%	1/10W
R739	1-216-821-11	METAL CHIP	1K	5%	1/10W
R740	1-216-849-11	METAL CHIP	220K	5%	1/10W
R741	1-216-833-11	METAL CHIP	10K	5%	1/10W
R742	1-216-853-11	METAL CHIP	470K	5%	1/10W
R744	1-216-845-11	METAL CHIP	100K	5%	1/10W
R746	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R747	1-216-837-11	METAL CHIP	22K	5%	1/10W
R748	1-216-809-11	METAL CHIP	100	5%	1/10W
R750	1-216-809-11	METAL CHIP	100	5%	1/10W
R751	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< VIBRATOR >			
X701	1-781-801-21	VIBRATOR, CERAMIC (16.9344MHz)			
**********					
	A-1109-048-A	CD RELAY BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CNP705	1-779-553-21	CONNECTOR, FFC (LIF (NON-ZIF)) 16P			
CNP706	1-565-878-11	PIN, CONNECTOR (PC BOARD) 6P			
**********					
*	1-866-165-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C161	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C261	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< JACK >			
J361	1-815-325-11	JACK (🎧)			
		< RESISTOR >			
R161	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R261	1-216-809-11	METAL CHIP	100	5%	1/10W
**********					
*	1-866-166-11	HEADPHONE TRANSLATION BOARD			
		**********			
		< CONNECTOR >			
CN361	1-815-445-11	PIN, CONNECTOR (PWB) 4P			
CN362	1-815-444-11	PIN, CONNECTOR (PWB) 3P			
CN363	1-815-446-11	PIN, CONNECTOR (PWB) 5P			
**********					
	A-1109-061-A	LCD BOARD, COMPLETE			
		**********			
	1-830-510-11	CABLE, FLEXIBLE FLAT (7 CORE)			
	1-830-511-11	CABLE, FLEXIBLE FLAT (21 CORE)			
		< CONNECTOR >			
CN403	1-695-364-31	PIN, CONNECTOR (PC BOARD) 3P			
CN404	1-784-726-11	CONNECTOR, FFC 4P			
		< RESISTOR >			
R401	1-216-817-11	METAL CHIP	470	5%	1/10W
R402	1-216-813-11	METAL CHIP	220	5%	1/10W
R403	1-216-817-11	METAL CHIP	470	5%	1/10W
R404	1-216-817-11	METAL CHIP	470	5%	1/10W
R407	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R409	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R410	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R411	1-216-817-11	METAL CHIP	470	5%	1/10W
R412	1-216-813-11	METAL CHIP	220	5%	1/10W
R413	1-216-817-11	METAL CHIP	470	5%	1/10W
R414	1-216-817-11	METAL CHIP	470	5%	1/10W
R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R417	1-216-821-11	METAL CHIP	1K	5%	1/10W
R418	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R420	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S401	1-771-349-21	SWITCH, TACT (POWER) (E100)			
S401	1-771-349-21	SWITCH, TACT (OPERATE) (E100L)			
S402	1-771-349-21	SWITCH, TACT (SLEEP)			
S405	1-771-349-21	SWITCH, TACT (TUNE +)			
S406	1-771-349-21	SWITCH, TACT (TUNE –)			
S407	1-771-349-21	SWITCH, TACT (■)			
S408	1-771-349-21	SWITCH, TACT (▶II)			
S409	1-771-349-21	SWITCH, TACT (BAND, RADIO, AUTO PRESET)			
S410	1-771-349-21	SWITCH, TACT (▶▶I PRESET +)			
S411	1-771-349-21	SWITCH, TACT (I◀◀ PRESET –)			
S412	1-771-349-21	SWITCH, TACT (VOLUME +)			
S413	1-771-349-21	SWITCH, TACT (VOLUME –)			
S414	1-771-349-21	SWITCH, TACT (MEGA BASS)			
**********					

Ref. No.	Part No.	Description			Remark
	A-1109-052-A	MAIN BOARD, COMPLETE (US, CND)			
	A-1119-536-A	MAIN BOARD, COMPLETE (TW, KR)			
	A-1126-046-A	MAIN BOARD, COMPLETE (AEP, UK, IT, EE, RU)			
	A-1126-671-A	MAIN BOARD, COMPLETE (SP)			
		**********			
		< CAPACITOR >			
C131	1-115-871-11	ELECT	1uF	20%	50V
C132	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C133	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C134	1-126-794-11	ELECT	4.7uF	20%	50V
C135	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C136	1-126-794-11	ELECT	4.7uF	20%	50V
C138	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C141	1-115-871-11	ELECT	1uF	20%	50V
C142	1-115-871-11	ELECT	1uF	20%	50V
C231	1-115-871-11	ELECT	1uF	20%	50V
C232	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C233	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C234	1-126-794-11	ELECT	4.7uF	20%	50V
C235	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C236	1-126-794-11	ELECT	4.7uF	20%	50V
C238	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C241	1-115-871-11	ELECT	1uF	20%	50V
C242	1-115-871-11	ELECT	1uF	20%	50V
C331	1-126-926-11	ELECT	1000uF	20%	10V
C332	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C333	1-126-796-11	ELECT	22uF	20%	50V
C334	1-162-923-11	CERAMIC CHIP	47PF	5PF	50V
C335	1-162-923-11	CERAMIC CHIP	47PF	5PF	50V
C801	1-115-156-11	CERAMIC CHIP	1uF		10V
C802	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C803	1-115-156-11	CERAMIC CHIP	1uF		10V
C804	1-128-499-11	ELECT	220uF	20%	16V
C805	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C806	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C814	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C816	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C817	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C818	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C819	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C820	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C821	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C822	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C823	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C824	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C825	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C826	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C828	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C830	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C931	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C932	1-126-382-11	ELECT	100uF	20%	16V
C933	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C934	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C935	1-126-382-11	ELECT	100uF	20%	16V
C941	1-126-795-11	ELECT	10uF	20%	50V
C951	1-128-499-11	ELECT	220uF	20%	16V
		< CONNECTOR >			
CN310	1-784-735-11	CONNECTOR, FFC 13P			
CN311	1-815-554-11	PIN, CONNECTOR (PWB) 6P			
CN331	1-816-478-11	PIN, CONNECTOR (PWB) 11P			
CN332	1-815-444-11	PIN, CONNECTOR (PWB) 3P			
CN801	1-568-830-11	CONNECTOR, FFC 11P			
CN802	1-568-838-11	CONNECTOR, FFC 21P			
CN803	1-784-775-11	CONNECTOR, FFC 14P			
CN804	1-568-826-11	CONNECTOR, FFC 7P			
		< DIODE >			
D331	8-719-988-61	DIODE 1SS355TE-17			
D801	8-719-083-93	DIODE KDS120-RTK			
D931	8-719-988-61	DIODE 1SS355TE-17			
D932	8-719-083-93	DIODE KDS120-RTK			
D933	8-719-083-58	DIODE UDZSTE-173.9B			
D934	8-719-988-61	DIODE 1SS355TE-17			
D941	8-719-082-07	DIODE KDS121-RTK			
D942	8-719-069-54	DIODE UDZSTE-175.1B			
D951	8-719-988-61	DIODE 1SS355TE-17			
		< JUMPER RESISTOR >			
FB931	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC331	6-701-919-01	IC PT2257-S			
IC801	6-805-452-01	IC uPD789478GC-A41-8BT-A			
IC802	6-701-560-01	IC BD4727G-TR			
IC803	6-703-769-01	IC BR24L01AF-WE2			
IC901	6-703-285-01	IC S-812C33AUA-C2NT2G			
		< JUMPER RESISTOR >			
JC141	1-216-864-11	SHORT CHIP	0		
JC241	1-216-864-11	SHORT CHIP	0		
JC801	1-216-864-11	SHORT CHIP	0		
JC802	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L801	1-414-137-31	INDUCTOR	0.22uH		
L802	1-410-521-11	INDUCTOR	100uH		
		< TRANSISTOR >			
Q131	8-729-905-35	TRANSISTOR	2SC4081-R		
Q231	8-729-905-35	TRANSISTOR	2SC4081-R		
Q801	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
Q802	8-729-028-99	TRANSISTOR	DTC114YUA-T106		
Q803	8-729-028-92	TRANSISTOR	DTA144TUA-T106		
Q804	8-729-029-16	TRANSISTOR	DTC144VUA-T106		
Q905	8-729-029-13	TRANSISTOR	DTC143ZUA-T106		
Q906	8-729-028-90	TRANSISTOR	DTA143ZUA-T106		
Q907	8-729-905-35	TRANSISTOR	2SC4081-R		

Ref. No.	Part No.	Description			Remark
Q908	8-729-036-86	TRANSISTOR	KTC3203Y-AT		
		< RESISTOR >			
R131	1-216-817-11	METAL CHIP	470	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R133	1-216-821-11	METAL CHIP	1K	5%	1/10W
R134	1-216-817-11	METAL CHIP	470	5%	1/10W
R135	1-216-864-11	SHORT CHIP	0		
R138	1-216-864-11	SHORT CHIP	0		
R139	1-216-864-11	SHORT CHIP	0		
R141	1-216-821-11	METAL CHIP	1K	5%	1/10W
R231	1-216-817-11	METAL CHIP	470	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R233	1-216-821-11	METAL CHIP	1K	5%	1/10W
R234	1-216-817-11	METAL CHIP	470	5%	1/10W
R235	1-216-864-11	SHORT CHIP	0		
R238	1-216-864-11	SHORT CHIP	0		
R239	1-216-864-11	SHORT CHIP	0		
R241	1-216-821-11	METAL CHIP	1K	5%	1/10W
R331	1-216-809-11	METAL CHIP	100	5%	1/10W
R332	1-216-833-11	METAL CHIP	10K	5%	1/10W
R333	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R334	1-216-833-11	METAL CHIP	10K	5%	1/10W
R335	1-216-833-11	METAL CHIP	10K	5%	1/10W
R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
R802	1-216-841-11	METAL CHIP	47K	5%	1/10W
R803	1-216-841-11	METAL CHIP	47K	5%	1/10W
R804	1-216-841-11	METAL CHIP	47K	5%	1/10W
R805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-817-11	METAL CHIP	470	5%	1/10W
R808	1-216-817-11	METAL CHIP	470	5%	1/10W
R809	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R810	1-216-853-11	METAL CHIP	470K	5%	1/10W
R811	1-216-833-11	METAL CHIP	10K	5%	1/10W
R812	1-216-833-11	METAL CHIP	10K	5%	1/10W
R813	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R815	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R817	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R818	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R819	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R820	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R821	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R822	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R823	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R824	1-216-817-11	METAL CHIP	470	5%	1/10W
R825	1-216-837-11	METAL CHIP	22K	5%	1/10W
R826	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R827	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R828	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R829	1-216-821-11	METAL CHIP	1K	5%	1/10W
R830	1-216-821-11	METAL CHIP	1K	5%	1/10W
R831	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R833	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R834	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R835	1-216-821-11	METAL CHIP	1K	5%	1/10W
R836	1-216-853-11	METAL CHIP	470K	5%	1/10W
R837	1-216-845-11	METAL CHIP	100K	5%	1/10W
R838	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R839	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R840	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R841	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R842	1-216-841-11	METAL CHIP	47K	5%	1/10W
R843	1-216-821-11	METAL CHIP	1K	5%	1/10W
R844	1-216-821-11	METAL CHIP	1K	5%	1/10W
R845	1-216-821-11	METAL CHIP	1K	5%	1/10W
R846	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R847	1-216-833-11	METAL CHIP	10K	5%	1/10W
R848	1-216-833-11	METAL CHIP	10K	5%	1/10W
R849	1-216-833-11	METAL CHIP	10K	5%	1/10W
R850	1-216-833-11	METAL CHIP	10K	5%	1/10W
R851	1-216-833-11	METAL CHIP	10K	5%	1/10W
R852	1-216-833-11	METAL CHIP	10K	5%	1/10W
R853	1-216-833-11	METAL CHIP	10K	5%	1/10W
R854	1-216-833-11	METAL CHIP	10K	5%	1/10W
R855	1-216-833-11	METAL CHIP	10K	5%	1/10W
R856	1-216-833-11	METAL CHIP	10K	5%	1/10W
R857	1-216-833-11	METAL CHIP	10K	5%	1/10W
R858	1-216-833-11	METAL CHIP	10K	5%	1/10W
R859	1-216-833-11	METAL CHIP	10K	5%	1/10W
R860	1-216-833-11	METAL CHIP	10K	5%	1/10W
R861	1-216-833-11	METAL CHIP	10K	5%	1/10W
R862	1-216-833-11	METAL CHIP	10K	5%	1/10W
R863	1-216-833-11	METAL CHIP	10K	5%	1/10W
R864	1-216-833-11	METAL CHIP	10K	5%	1/10W
R865	1-216-833-11	METAL CHIP	10K	5%	1/10W
R866	1-216-833-11	METAL CHIP	10K	5%	1/10W
R867	1-216-833-11	METAL CHIP	10K	5%	1/10W
R868	1-216-833-11	METAL CHIP	10K	5%	1/10W
R869	1-216-841-11	METAL CHIP	47K	5%	1/10W
R870	1-216-841-11	METAL CHIP	47K	5%	1/10W
R871	1-216-841-11	METAL CHIP	47K	5%	1/10W
R872	1-216-833-11	METAL CHIP	10K	5%	1/10W
R873	1-216-845-11	METAL CHIP	100K	5%	1/10W
R874	1-216-849-11	METAL CHIP	220K	5%	1/10W
R875	1-216-845-11	METAL CHIP	100K	5%	1/10W
R876	1-216-845-11	METAL CHIP	100K	5%	1/10W
R877	1-216-833-11	METAL CHIP	10K	5%	1/10W
R878	1-216-833-11	METAL CHIP	10K	5%	1/10W
R879	1-216-833-11	METAL CHIP	10K	5%	1/10W
R880	1-216-853-11	METAL CHIP	470K	5%	1/10W
R881	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R882	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (SP)
R882	1-216-837-11	METAL CHIP	22K	5%	1/10W (TW, KR)
R882	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK, IT, EE, RU)
R882	1-216-864-11	SHORT CHIP	0 (US, CND)		
R883	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (TW, KR)
R883	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP, UK, IT, EE, RU)

Ref. No.	Part No.	Description			Remark
R883	1-216-864-11	SHORT CHIP	0 (US, CND, SP)		
R891	1-216-833-11	METAL CHIP	10K	5%	1/10W
R892	1-216-841-11	METAL CHIP	47K	5%	1/10W
R893	1-216-833-11	METAL CHIP	10K	5%	1/10W
R894	1-216-837-11	METAL CHIP	22K	5%	1/10W
R895	1-216-833-11	METAL CHIP	10K	5%	1/10W
R896	1-216-837-11	METAL CHIP	22K	5%	1/10W
R897	1-216-833-11	METAL CHIP	10K	5%	1/10W
R898	1-216-837-11	METAL CHIP	22K	5%	1/10W
R931	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R932	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R933	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R934	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R935	1-216-833-11	METAL CHIP	10K	5%	1/10W
R936	1-216-833-11	METAL CHIP	10K	5%	1/10W
R937	1-216-813-11	METAL CHIP	220	5%	1/10W
R938	1-216-809-11	METAL CHIP	100	5%	1/10W
R939	1-216-833-11	METAL CHIP	10K	5%	1/10W
R941	1-216-817-11	METAL CHIP	470	5%	1/10W
R942	1-216-817-11	METAL CHIP	470	5%	1/10W
R943	1-216-817-11	METAL CHIP	470	5%	1/10W
R944	1-216-817-11	METAL CHIP	470	5%	1/10W
R945	1-216-821-11	METAL CHIP	1K	5%	1/10W
R946	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-216-821-11	METAL CHIP	1K	5%	1/10W
R952	1-216-821-11	METAL CHIP	1K	5%	1/10W
R961	1-216-821-11	METAL CHIP	1K	5%	1/10W
R962	1-216-821-11	METAL CHIP	1K	5%	1/10W
R963	1-216-817-11	METAL CHIP	470	5%	1/10W
R964	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S701	1-571-936-11	SWITCH, LEAF (CD LID CLOSE DETECT)			
		< VIBRATOR >			
X801	1-795-950-11	VIBRATOR, CRYSTAL (32.768kHz)			
X802	1-795-054-21	VIBRATOR, CERAMIC (4.19MHz)			
**********					
	A-1109-063-A	MODE BOARD, COMPLETE			
		**********			
	1-830-508-11	CABLE, FLEXIBLE FLAT (3 CORE)			
		< RESISTOR >			
R405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R406	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S403	1-771-349-21	SWITCH, TACT (MODE)			
S404	1-771-349-21	SWITCH, TACT (DISPLAY, ENTER MEMORY)			
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Ref. No.	Part No.	Description			Remark
	A-1109-054-A	POWER BOARD, COMPLETE (US)			
	A-1119-538-A	POWER BOARD, COMPLETE			(AEP, UK, IT, EE, RU, KR)
	A-1124-796-A	POWER BOARD, COMPLETE (SP)			
	A-1124-986-A	POWER BOARD, COMPLETE (CND)			
	A-1126-631-A	POWER BOARD, COMPLETE (TW)			
		**********			
	1-533-233-21	FUSE HOLDER			
	3-254-151-01	SCREW (B2.6), (+) P TAPPING			
		< CAPACITOR >			
C151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C152	1-126-786-11	ELECT	47uF	20%	16V
C153	1-126-382-11	ELECT	100uF	20%	16V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-126-926-11	ELECT	1000uF	20%	10V
C251	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C252	1-126-786-11	ELECT	47uF	20%	16V
C253	1-126-382-11	ELECT	100uF	20%	16V
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-126-926-11	ELECT	1000uF	20%	10V
C351	1-126-786-11	ELECT	47uF	20%	16V
C352	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-126-786-11	ELECT	47uF	20%	16V
C354	1-126-795-11	ELECT	10uF	20%	50V
C355	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C901	1-162-995-11	CERAMIC CHIP	0.022uF		50V (EXCEPT US, SP, TW)
C901	1-165-319-11	CERAMIC CHIP	0.1uF		50V (US, SP, TW)
C902	1-162-995-11	CERAMIC CHIP	0.022uF		50V (EXCEPT US, SP, TW)
C902	1-165-319-11	CERAMIC CHIP	0.1uF		50V (US, SP, TW)
C903	1-162-995-11	CERAMIC CHIP	0.022uF		50V (EXCEPT US, SP, TW)
C903	1-165-319-11	CERAMIC CHIP	0.1uF		50V (US, SP, TW)
C904	1-162-995-11	CERAMIC CHIP	0.022uF		50V (EXCEPT US, SP, TW)
C904	1-165-319-11	CERAMIC CHIP	0.1uF		50V (US, SP, TW)
C905	1-126-795-11	ELECT	10uF	20%	50V
C906	1-126-937-11	ELECT	4700uF	20%	16V
C907	1-126-935-11	ELECT	470uF	20%	16V
C908	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C909	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C910	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C911	1-126-935-11	ELECT	470uF	20%	16V
C912	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< DIODE >			
D351	8-719-988-61	DIODE 1SS355TE-17			
D901	8-719-063-79	DIODE 1N4002B			
D902	8-719-063-79	DIODE 1N4002B			
D903	8-719-063-79	DIODE 1N4002B			
D904	8-719-063-79	DIODE 1N4002B			
D905	8-719-978-33	DIODE DTZ-TT11-6.8B			
D906	8-719-978-33	DIODE DTZ-TT11-6.8B			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC351	8-759-426-51	IC BA5417			
		< JACK >			
⚠J901	1-526-838-11	INLET, AC 2P (～ AC IN) (EXCEPT US, CND)			
⚠J901	1-540-009-11	INLET, AC (～ AC IN) (US, CND)			
		< TRANSISTOR >			
Q151	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q251	8-729-029-10	TRANSISTOR	DTC143TUA-T106		
Q901	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
Q902	8-729-905-35	TRANSISTOR	2SC4081-R		
Q903	8-729-018-99	TRANSISTOR	2SD2394-F		
Q904	8-729-028-54	TRANSISTOR	KTC3205		
		< RESISTOR >			
R151	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R152	1-216-817-11	METAL CHIP	470	5%	1/10W
R153	1-216-813-11	METAL CHIP	220	5%	1/10W
R154	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R155	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R156	1-216-833-11	METAL CHIP	10K	5%	1/10W
R157	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R251	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R252	1-216-817-11	METAL CHIP	470	5%	1/10W
R253	1-216-813-11	METAL CHIP	220	5%	1/10W
R254	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R255	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W
R257	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R351	1-216-821-11	METAL CHIP	1K	5%	1/10W
R352	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R353	1-216-857-11	METAL CHIP	1M	5%	1/10W
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W
R901	1-216-841-11	METAL CHIP	47K	5%	1/10W
R902	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R903	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W
R905	1-216-821-11	METAL CHIP	1K	5%	1/10W
R906	1-216-821-11	METAL CHIP	1K	5%	1/10W
R907	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R908	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R909	1-216-833-11	METAL CHIP	10K	5%	1/10W
R911	1-216-821-11	METAL CHIP	1K	5%	1/10W
R912	1-216-821-11	METAL CHIP	1K	5%	1/10W
R913	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
	A-3683-864-A	PRE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-104-665-11	ELECT	100uF	20%	25V
C103	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C104	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-104-665-11	ELECT	100uF	20%	25V
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-104-665-11	ELECT	100uF	20%	25V
C302	1-104-665-11	ELECT	100uF	20%	25V
C303	1-104-665-11	ELECT	100uF	20%	25V
C304	1-126-947-11	ELECT	47uF	20%	35V
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C310	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
		< CONNECTOR >			
CN303	1-784-774-11	CONNECTOR, FFC 13P			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
		< JUMPER RESISTOR >			
JC301	1-216-864-11	SHORT CHIP	0		
JC302	1-216-864-11	SHORT CHIP	0		
JC303	1-216-864-11	SHORT CHIP	0		
JC304	1-216-864-11	SHORT CHIP	0		
JC305	1-216-864-11	SHORT CHIP	0		
JC306	1-216-295-00	SHORT CHIP	0		
JC307	1-216-864-11	SHORT CHIP	0		
JC308	1-216-295-00	SHORT CHIP	0		
JC309	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q301	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q302	8-729-907-00	TRANSISTOR	DTC114EU		
Q303	8-729-907-00	TRANSISTOR	DTC114EU		
		< RESISTOR >			
R101	1-216-835-11	METAL CHIP	15K	5%	1/10W
R102	1-216-807-11	METAL CHIP	68	5%	1/10W
R103	1-216-843-11	METAL CHIP	68K	5%	1/10W
R104	1-216-835-11	METAL CHIP	15K	5%	1/10W
R105	1-216-835-11	METAL CHIP	15K	5%	1/10W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R112	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R201	1-216-835-11	METAL CHIP	15K	5%	1/10W
R202	1-216-807-11	METAL CHIP	68	5%	1/10W
R203	1-216-843-11	METAL CHIP	68K	5%	1/10W
R204	1-216-835-11	METAL CHIP	15K	5%	1/10W
R205	1-216-835-11	METAL CHIP	15K	5%	1/10W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-025-11	RES-CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R212	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R301	1-216-857-11	METAL CHIP	1M	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R307	1-216-797-11	METAL CHIP	10	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-805-11	METAL CHIP	47	5%	1/10W
R310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R311	1-216-857-11	METAL CHIP	1M	5%	1/10W
R314	1-216-817-11	METAL CHIP	470	5%	1/10W
R315	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)			
		< TRANSFORMER >			
T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION			
**********					
	A-1109-065-A	REMOTE CONTROL BOARD, COMPLETE			
		**********			
	1-830-509-11	CABLE, FLEXIBLE FLAT (4 CORE)			
	2-587-601-01	HOLDER (LED)			
		< CAPACITOR >			
C401	1-115-156-11	CERAMIC CHIP	1uF		10V
		< LED >			
D401	8-719-059-97	LED L-34HD (OPR/BATT)			
		< IC >			
IC401	6-600-108-01	IC RPM7140			
		< RESISTOR >			
R423	1-216-813-11	METAL CHIP	220	5%	1/10W
R424	1-216-841-11	METAL CHIP	47K	5%	1/10W
**********					
	A-1070-126-A	TU BOARD, COMPLETE (SP, TW, KR)			
	A-1109-056-A	TU BOARD, COMPLETE (US, CND)			
	A-1126-048-A	TU BOARD, COMPLETE (E100L)			
		**********			
		< CAPACITOR >			
C1	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)
C4	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)

Ref. No.	Part No.	Description			Remark
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)
C7	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C10	1-126-960-11	ELECT	1uF	20%	50V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-126-963-11	ELECT	4.7uF	20%	50V
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (US, CND)
C14	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (EXCEPT US, CND)
C14	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (US, CND)
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (EXCEPT US, CND)
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (US, CND)
C18	1-126-934-11	ELECT	220uF	20%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-126-960-11	ELECT	1uF	20%	50V
C22	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C23	1-126-960-11	ELECT	1uF	20%	50V
C24	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C25	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (E100L)
C26	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (E100)
C27	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (E100)
C29	1-104-665-11	ELECT	100uF	20%	25V
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C31	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C32	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C33	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C37	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C39	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C40	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (E100L)
C41	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C42	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C43	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (E100)
C43	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (E100L)
C44	1-164-230-11	CERAMIC CHIP	220PF	5%	50V (E100L)
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)
C46	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (E100L)
C47	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (E100)
C48	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (E100L)
C49	1-161-051-00	CERAMIC	0.01uF	10%	25V (E100)
C49	1-161-772-11	CERAMIC	0.1uF	10%	25V (E100L)

Ref. No.	Part No.	Description			Remark
C51	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C52	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C53	1-136-169-00	FILM	0.22uF	5%	50V (E100)
C53	1-137-194-81	FILM	0.47uF	5%	50V (E100L)
C54	1-126-934-11	ELECT	220uF	20%	16V
C55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C56	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C57	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C58	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)
C59	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (E100)
C59	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (E100L)
C60	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C62	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C63	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C64	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (E100L)
C65	1-126-963-11	ELECT	4.7uF	20%	50V (E100)
C66	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C68	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C70	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V (E100L)
C71	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (E100L)
C72	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (E100L)
C73	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (E100L)
C77	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (EXCEPT US, CND)
C78	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (EXCEPT US, CND)
C80	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C93	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (E100L)
C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< FILTER >			
CF2	1-795-426-11	FILTER, CERAMIC (E100L)			
CF2	1-760-235-81	FILTER, CERAMIC (E100)			
CF4	1-781-962-21	FILTER, CERAMIC			
		< CONNECTOR >			
CNP1	1-568-854-11	CONNECTOR, FFC 11P			
		< TRIMMER >			
CT1	1-141-442-91	CAP, CERAMIC TRIMMER			
CT3	1-141-304-21	CAP, CERAMIC TRIMMER			
CT5	1-141-459-11	CAP, TRIMMER (SEAL TYPE) (E100L)			
		< DIODE >			
D1	8-719-078-48	DIODE KV1471ETR-G			
D2	8-719-078-48	DIODE KV1471ETR-G			
D3	8-719-050-69	DIODE KV1520N			

Ref. No.	Part No.	Description			Remark
D10	8-719-988-61	DIODE 1SS355TE-17			
D11	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC1	6-700-512-01	IC TA2149BN			
IC2	8-759-483-40	IC LC72137M-TLM-E			
		< JUMPER RESISTOR >			
JC1	1-216-864-11	SHORT CHIP	0		
JC2	1-216-864-11	SHORT CHIP	0		
JC3	1-216-864-11	SHORT CHIP	0		
JC4	1-216-864-11	SHORT CHIP	0		
JC5	1-216-864-11	SHORT CHIP	0		
JC6	1-216-864-11	SHORT CHIP	0		
JC11	1-216-864-11	SHORT CHIP	0 (E100)		
JC12	1-216-864-11	SHORT CHIP	0 (E100)		
JC13	1-216-864-11	SHORT CHIP	0 (E100)		
JC22	1-216-864-11	SHORT CHIP	0 (E100L)		
JC23	1-216-864-11	SHORT CHIP	0 (E100L)		
JC24	1-216-864-11	SHORT CHIP	0 (EXCEPT US, CND)		
JC33	1-216-864-11	SHORT CHIP	0		
JC34	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1	1-409-775-11	COIL, AIR-CORE			
L2	1-416-509-11	COIL, AIR-CORE			
L3	1-754-116-12	ANTENNA, FERRITE-ROD (LW MW) (E100L)			
L3	1-754-117-12	ANTENNA, FERRITE-ROD (MW) (E100)			
L4	1-411-199-31	COIL, MW/LW OSC (E100L)			
L4	1-411-234-21	COIL, AM OSC (E100)			
L11	1-414-142-11	INDUCTOR	1uH (US, CND)		
L21	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q12	8-729-028-99	TRANSISTOR	DTC114YUA-T106 (E100L)		
Q14	8-729-905-35	TRANSISTOR	2SC4081-R (E100L)		
Q41	8-729-920-31	TRANSISTOR	DTC343TK (E100L)		
Q42	8-729-054-77	TRANSISTOR	2SC4098-T106-PQ (E100L)		
Q43	8-729-920-38	TRANSISTOR	2SC2059K-N (E100L)		
Q44	8-729-054-77	TRANSISTOR	2SC4098-T106-PQ (E100L)		
Q61	8-729-106-07	FET	2SK514-H (E100L)		
		< RESISTOR >			
R1	1-216-817-11	METAL CHIP	470	5%	1/10W
R2	1-216-817-11	METAL CHIP	470	5%	1/10W
R3	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5	1-216-821-11	METAL CHIP	1K	5%	1/10W (E100)
R7	1-216-853-11	METAL CHIP	470K	5%	1/10W (E100L)
R9	1-216-845-11	METAL CHIP	100K	5%	1/10W (E100L)
R10	1-216-805-11	METAL CHIP	47	5%	1/10W
R11	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R12	1-216-841-11	METAL CHIP	47K	5%	1/10W (E100L)
R13	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R14	1-216-821-11	METAL CHIP	1K	5%	1/10W
R16	1-216-833-11	METAL CHIP	10K	5%	1/10W (E100L)
R17	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (E100L)
R18	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E100L)
R19	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (E100L)
R22	1-216-833-11	METAL CHIP	10K	5%	1/10W (E100L)
R24	1-216-813-11	METAL CHIP	220	5%	1/10W
R30	1-216-837-11	METAL CHIP	22K	5%	1/10W
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R32	1-216-845-11	METAL CHIP	100K	5%	1/10W
R33	1-216-833-11	METAL CHIP	10K	5%	1/10W
R40	1-216-849-11	METAL CHIP	220K	5%	1/10W (E100)
R40	1-216-853-11	METAL CHIP	470K	5%	1/10W (E100L)
R41	1-216-833-11	METAL CHIP	10K	5%	1/10W
R42	1-216-845-11	METAL CHIP	100K	5%	1/10W (E100L)
R43	1-216-833-11	METAL CHIP	10K	5%	1/10W (E100L)
R50	1-216-821-11	METAL CHIP	1K	5%	1/10W
R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
R52	1-216-809-11	METAL CHIP	100	5%	1/10W (E100L)
R52	1-216-864-11	SHORT CHIP	0 (E100)		
R53	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R54	1-216-817-11	METAL CHIP	470	5%	1/10W
R55	1-216-833-11	METAL CHIP	10K	5%	1/10W (E100)
R55	1-216-864-11	SHORT CHIP	0 (E100L)		
R56	1-216-813-11	METAL CHIP	220	5%	1/10W
R57	1-216-809-11	METAL CHIP	100	5%	1/10W
R58	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R59	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R60	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R61	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R63	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E100L)
R63	1-216-833-11	METAL CHIP	10K	5%	1/10W (E100)
R64	1-216-821-11	METAL CHIP	1K	5%	1/10W (E100L)
R64	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (E100L)
R65	1-216-833-11	METAL CHIP	10K	5%	1/10W (E100)
R66	1-216-805-11	METAL CHIP	47	5%	1/10W (E100L)
R91	1-216-813-11	METAL CHIP	220	5%	1/10W
R92	1-216-813-11	METAL CHIP	220	5%	1/10W
R93	1-216-821-11	METAL CHIP	1K	5%	1/10W (E100L)
R94	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
T1	1-433-741-11	TRANSFORMER, IF	
T2	1-419-465-11	COIL (DET)	
		< VIBRATOR >	
X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)	
**********			
		MISCELLANEOUS	
		**********	
253	1-829-241-11	CABLE, FLEXIBLE FLAT (11 CORE)	
255	1-830-507-11	CABLE, FLEXIBLE FLAT (13 CORE)	
264	1-829-252-11	CABLE, FLEXIBLE FLAT (14 CORE)	
308	1-830-506-11	CABLE, FLEXIBLE FLAT (20 CORE)	
⚠311	8-820-138-13	OPTICAL PICK-UP (KSM-900AAA)	
701	A-1119-419-A	MECHANISM DECK ASSY (MF-E100)	
ANT1	1-754-282-11	ANTENNA, TELESCOPIC	
⚠F901	1-533-451-12	FUSE, GLASS TUBE (DIA. 5) (3.15A/125V)	(US, CND, TW)
⚠F901	1-533-468-12	FUSE, GLASS TUBE (DIA. 5) (T2A/250V)	(AEP, UK, IT, EE, RU, SP, KR)
HE301	1-500-813-11	HEAD, ERASE	
HRP301	3-266-053-01	HEAD, RP (RECORD/PLAYBACK)	
LCD401	1-805-845-11	DISPLAY PANEL, LIQUID CRYSTAL	
M901	X-3385-048-1	MOTOR SUB ASSY (CAPSTAN/REEL)	
S902	1-762-819-11	SWITCH, LEAF (TAPE PLAY)	
SP101	1-826-150-11	SPEAKER (8cm) (L-ch)	
SP201	1-826-150-11	SPEAKER (8cm) (R-ch)	
⚠T901	1-435-917-21	TRANSFORMER, POWER (US, CND, TW)	
⚠T901	1-435-918-21	TRANSFORMER, POWER	(AEP, UK, IT, EE, RU, SP, KR)
**********			
		ACCESSORIES	
		**********	
⚠	1-769-412-22	CORD, POWER (AEP, UK, EE, RU, IT, SP)	
⚠	1-770-019-51	ADAPTOR, CONVERSION PLUG 3P (UK)	
⚠	1-776-985-12	CORD, POWER (KR)	
⚠	1-783-878-11	CORD, POWER (US, CND)	
⚠	1-829-433-11	CORD, POWER (TW)	
	2-587-606-12	MANUAL, INSTRUCTION (ENGLISH)	(E100: US, CND)
	2-587-606-21	MANUAL, INSTRUCTION (FRENCH)	(E100: CND)
	2-587-606-31	MANUAL, INSTRUCTION (ENGLISH) (TW)	
	2-587-606-51	MANUAL, INSTRUCTION (ENGLISH)	(E100: SP, KR/E100L: AEP, UK)
	2-587-606-61	MANUAL, INSTRUCTION (SPANISH)	(E100: SP/E100L: AEP)
	2-587-606-71	MANUAL, INSTRUCTION (FRENCH)	(E100: SP/E100L: AEP)
	2-587-606-81	MANUAL, INSTRUCTION (GERMAN)	(E100L: AEP)
	2-587-606-91	MANUAL, INSTRUCTION (DUTCH)	(E100L: AEP)
	2-596-560-11	MANUAL, INSTRUCTION (PORTUGUESE)	(E100L: AEP)
	2-596-560-21	MANUAL, INSTRUCTION (ITALIAN) (E100L: IT)	

Ref. No.	Part No.	Description	Remark
	2-596-560-31	MANUAL, INSTRUCTION (SWEDISH)	(E100L: EE, RU)
	2-596-560-41	MANUAL, INSTRUCTION (FINNISH)	(E100L: EE, RU)
	2-596-560-51	MANUAL, INSTRUCTION (POLISH)	(E100L: EE, RU)
	2-596-560-61	MANUAL, INSTRUCTION (CZECH)	(E100L: EE, RU)
	2-596-560-71	MANUAL, INSTRUCTION (HUNGARIAN)	(E100L: EE, RU)
	2-596-560-81	MANUAL, INSTRUCTION (SLOVAKIAN)	(E100L: EE, RU)
	2-596-560-91	MANUAL, INSTRUCTION (RUSSIAN)	(E100L: EE, RU)
	2-596-561-11	MANUAL, INSTRUCTION (KOREAN) (E100: KR)	
	2-596-561-21	MANUAL, INSTRUCTION (TRADITIONAL CHINESE) (E100: TW)	
	2-109-740-01	LID, BATTERY CASE (for RMT-CE90A/RMT-CE90AD) (for BLUE)	(E100: SP, TW, KR/E100L: AEP)
	3-238-070-01	LID, BATTERY CASE (for RMT-CE95A/RMT-CE95AD) (for SILVER)	(E100: SP, TW, KR/E100L)
	3-267-151-11	LID BATTERY (for RMT-CE100A) (for WHITE)	(E100: US, CND)
	A-1108-694-A	REMOTE CONTROL UNIT (RMT-CE100A//C (SET)) (for WHITE)	(E100: US, CND)
	A-1128-611-A	REMOTE CONTROL UNIT (RMT-CE90A/LC (SET)) (for BLUE)	(E100: SP, TW, KR)
	A-3172-070-A	REMOTE CONTROL UNIT (RMT-CE95AD/SC (SET)) (for SILVER) (E100L)	
	A-3172-079-A	REMOTE CONTROL UNIT (RMT-CE95A/SC (SET)) (for SILVER)	(E100: SP, TW, KR)
	A-3172-202-A	REMOTE CONTROL UNIT (RMT-CE90AD/LC (SET)) (for BLUE)	(E100L: AEP)

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.05	New
1.1	2005.05	Addition of Singapore and Taiwan model Revision of parts on the MAIN board